University News

The Chancellor of Andhra University Shri Ram Lal, addressing the Convocation of the University Prof M G K Menon Member, Planning Commission, who delivered the Convocation Address and Shri V P Rama Rao Vice-Chancellor-in-Charge can also be seen in the picture

Library

KUMAUN UNIVERSITY
NAINITAL
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Applications for the following posts are invited by 10 June 1984 on the prescribed form obtainable from the Registrar Kumaun University Nainital 263001 U P by sending a self addressed 9 × 6' envelope and a crossed postal order Bank draft of Rs 5 - payable to the Finance Officer Kumaun University Nainital Money order is not acceptable Candidates who have already applied in response to the advertisement dated 27-5-81 17-8-82 4-8-81 and Advt No 898 dt 22-8-83 for the post of lecturer in Zoology need not apply again They may however send the latest addition to their qualifications change of address etc

Sl No	Department	Professor (1500-2500)	Reader (1200-1900)	Lecturers (700-1600)	Specialization
1	Economics	1 R	–	—	–
2	Geography	1 R	–	—	—
3	Chemistry	1 TLR	1 TLR	–	–
4	Education	1 R	–	2 1 R 1 TLR	—
5	Zoology	—	–	2 TLR	Fish biology preferable for one post
6	Pol Science	—	–	1 TLR	–
7	Mathematics	1 TLR	1 TLR	—	
8	History	1 TLR	—		
9	Hindi	—	1 TLR	—	–

NOTE R implies regular (permanent) TLR implies temporary likely to be regular

Qualifications

1 **For the post Lecturer Zoology & Political Science**

(a) a doctorate degree or research work of an equally high standard in relevant subject **and**

(b) consistently good academic record with first or high second class Master's degree or an equivalent degree of a foreign university in relevant subject

2 **For Lecturer in Education**

Either

(a) a doctorate degree in Education or research work of an equally high standard **and**

(b) consistently good academic record with first or high second class master's degree or an equivalent degree of a foreign university in relevant subject

OR

(a) a doctorate degree in any relevant or related discipline or research work of an equally high standard **and**

(b) consistently good academic record with M Phil degree in Education or an equivalent degree of a foreign University

3 **For Reader in Chemistry Mathematics Hindi**

(i) good academic record with a doctorate degree or equivalent published work and active engagement in research or innovation in teaching methods or production of teaching materials **and**

(ii) Five years experience of teaching or research including at least three years as lecturer or in equivalent position

4 **For Professor— One each in Economics Geography Chemistry, Education Mathematics History**

Either

Eminent scholar with published work of high quality and active engagement in research and ten years experience of teaching or research and experience of guiding research at doctorate level

OR

Outstanding scholar with established reputation for significant contribution to knowledge

Further details regarding qualifications service terms and permissible relaxation in qualifications will be provided with the application forms Preference will be given to SC ST and disabled candidates if otherwise considered suitable by the selection committee Application form will not be sent by post after **31st May, 1984**

B N Singh
REGISTRAR

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Applications are invited for the following posts

1 Reader in Electrical Engineering (Preferably with specialization in power systems)	1
2 Lecturers	16 posts
a Electrical Engineering	2
b Mechanical Engineering (leave vacancy)	1
c Education (with specialization in any one of the areas Home Science Child Development Drawing and Painting Library Science)	3
d Commerce (Accountancy Applied Business Economics Business Administration)	3
e Agricultural Operations	1
f Rural Development	1
g Drawing and Painting	1
h Cultural Education	1
i Performing Arts	1
j English	1
k Botany	1
3 Teaching Assistant (Mechanical Electrical Engineering)	2

Pay Scales For posts (1) Rs 1200-1900 (2) Rs 700-1600 (3) Rs 850 - (Consolidated) for graduates and Rs 950 (Consolidated) - for post graduates

Note

1 All posts carry allowances admissible under the Institute's rules

2 Separate application form should be submitted for each post

3 The number of posts may vary according to need

4 SC ST candidates if found suitable will be given preference

5 Government or Semi-Government employees should apply through their employers or produce a no objection certificate at the time of interview

6 Application forms along with full details of the qualifications for each post can be had from the office of the Registrar of the Institute on payment of Rs 5 - with a self addressed stamped envelope

7 Completed applications along with attested true copies of the certificates and the registration fee of Rs 10 - should reach the Registrar on or before **31 May, 1984**

8 All payments in respect of application fee or registration fee should be made either by cash at counter or by Crossed Bank Draft drawn in favour of DAYALBAGH EDUCATIONAL INSTITUTE on any bank at Agra or by crossed Indian Postal Order drawn as above payable at Dayalbagh Post Office

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Editor :

M.S RAMAMURTHY

A Study and Action-Oriented Project on Integrated Rural Development

1 Project Profile

The Karnatak University with the help of its own academic personnel has decided upon adopting a well-formulated and integrated research and action oriented plan of integrated rural development under its auspices envisaging sustained and perceptible improvements in the environmental, social and economic conditions of the target rural population A list of programmes includes the development of agriculture and animal husbandry, sericulture, mineral exploration, water resources development, water and soil testing, control of crop pests, fabrication of simple tools and equipments, improvements in housing, improvements in the availability of credit facilities, especially for the weaker sections, development of leadership, and also effecting the necessary attitudinal changes for a better participation and involvement in self-directed developmental efforts

In rural development, we first discover an important strategy of social mobilization, and second, the realization that rural development is basically related to political and economic development Thus rural development can broadly be understood as a distinct strategy meant to improve the economic and social life of a specific group of people The delicate task of undertaking programmes of rural development can fully be appreciated in the light of a combination of extensive rural poverty and low levels of mobilizable resources

There are two important ways in which scientists can play an useful role in accomplishing the task of rural development The first is the meaningful task of preparing a scientific balance sheet of the developmental assets and liabilities of a selected rural area in order to identify the developmental opportunities that exist, and the bottle-necks that have to be initially removed The final task of the scientists is in the direction of converting these developmental opportunities into a system of economically feasible and socially purposeful projects

There is need for a proper operationalization of the concept of development so that we are not completely lost in rhetorics Many attempts have been made at operationalizing this much-used concept But we will be content with a straightforward definition provided in a scholarly work by Rogers and Shoemaker "Development is a type of social change in which new ideas are introduced into a social system in order to produce higher per capita incomes and levels of living through more modern production methods and improved social organization"

Obviously, development should imply the liberation of man from the vicious circle of poverty, ignorance, malnutrition, disease and dependence thereby enabling the people concerned to become aware of new horizons of individual and collective existence Without the participation of the people in these decisions that affect them, those who administer the development programmes can only excel in a rich initiative exercise

2 Study Programme

The first stage of this study and action oriented project of rural development is a programme of studying the target population in order to gain a comprehensive understanding of the social, economic and ecological conditions under which the target population is actually found It is proposed that the study will have the household as the unit of study For this purpose a separate household schedule will be used The main objectives of the study programme would be

(a) To seek an understanding of the social and economic conditions of the target population (b) To assess the existing physical resources of the communities under purview and the extent to which they have been utilized (c) To assess the specific occupational skills and manpower resources which the communities possess and the extent to which these resources are actually utilized (d) On the basis ofthe above, to assess the potentialities for development in regard to physical resources as well as human resources which the target groups possess. (e) To draw up specific programmes of development which will be meaningful in terms of sustained development of existing potentials

It is proposed to organize a student volunteer force of about 30 students and at least 6 research scholars who would involve themselves actively in the various aspects of the study and action project The research scholars will be useful in providing the necessary leads in the execution of the project and to monitor the project at various stages in order to maintain the necessary co-ordination, continuity and direction Essentially, each of the student volunteer teams would comprise five students and a research scholar under the guidance of teachers These teams will be associated with the project right from the initial stage of preliminary studies and investigations

3. Target Area

The target area comprises a cluster of six villages in the vicinity of the University These villages are

(i) Salakinkoppa (ii) Baad (iii) Nigadi (iv) Benakanakatti (v) Mansur and (vi) Mangundi

These six villages together comprise nearly 1300 households with a total population of about 10,830 This is considered to be a viable unit for taking up a study and action project of rural development

4 Objectives of the Project

The main objectives of the entire project are (i) to identify the needs of the target population in terms of the existing ecological, social and economic conditions, (ii) to assess the existing community resources and potentialities meaningful for development, (iii) to assess the extent to which the government and other agency-sponsored developmental programmes are implemented or in the process of being implemented in the area concerned in order to identify the area where new thrusts could be introduced, (iv) to activate people involvement and participation in developmental efforts in order to enhance the self-directed efforts towards development on the part of the target population

5 Approaches to Rural Development

On the basis of survey data and other information obtainable from the governmental and other agencies, specific action oriented programmes in some selected substantive areas will be drawn up for execution These programme proposals will necessarily have to be in the format of a profile providing necessary information about the nature of the whole programme, the possible targets to be reached, the duration of the programme, the agencies to be involved, and an estimate of the possible financial outlay

6 Programme Profiles

In order to provide meaningful direction to the entire project, it is necessary to project specific Programmes as proposals that can be supplemented and modified, as need be, after obtaining the actual data from the study programme Preliminary visits have already been made to the villages, and contacts have been established with local officials connected with the development administration

The following are the programme proposals

(A) Forestry Programme (Social Ecology)

The task group consisting of personnel from Botany and Zoology Departments will make an assessment of existing forest resources and plant wealth in terms of its utilization for household use, as also for the support of livestock It will also make an assessment for the development of specific plant species useful for domestic fuel, house construction, industrial use and for the provision of green manure

The task group will formulate specific programmes, perhaps with the help of the Forest Department, and the Department of Agriculture, for the development of plant wealth and forest resources with estimation of targets to be reached The profile of programmes will include information on viable units of development, location, and an assessment as to how the local resources could be matched with outside assistance It may also include an estimate of financial outlay required, duration of programme and personnel required

(B) Soil and Water Conservation Programme

One of the important tasks of this group comprising personnel from the departments of Geology and Geography is to assess the quality of the soil and its suitability for specific uses including agriculture For this purpose an intensive programme of testing of soil samples may have to be undertaken A kind of geological mapping and also the preparation of detailed contour mapping will have to be done The possibilities of mineral exploration in the local area will be assessed

Another important task is to assess the availability of ground water resources, and also an estimation of surface water resources can be made The possibilities of digging wells for domestic use as well as for lift irrigation may be estimated with information on location, number of feasible wells, and the degree to which water availability could be augmented

Specific programmes may also pertain to improvements in drainage, bunding requirements in agriculture etc can be projected

The needed financial investment the personnel required, duration of programmes, etc may be indicated

(C) Agricultural Programme

One of the important tasks of this group with personnel from the departments of Economics, Anthropology and Gandhian Studies is to assess the existing agricultural practices and the level of agricultural productivity Details of the cropping pattern will also be taken note of The nature of agricultural inputs and labour inputs will have to be assessed It is necessary for assessing the existing marketing facilities

The programme will concern itself with the possibilities of diversification of cropping pattern, improvements in the productivity of land and labour, water management horticultural development improvements in storage and marketing etc

An estimate will be given as to the financial requirements, duration of the programme, the personnel required, and the targets that could be accomplished etc will be indicated

(D) Animal Husbandry Programme

One of the essential tasks of this group with personnel from the Department of Zoology is to assess the existing animal husbandry practices, including the breeding practices The team will assess the potentialities in respect of the development of animal husbandry like poultry, cattle development etc A major breakthrough in the development of animal husbandry can be achieved through better breeding practices and through introduction of necessary infrastructural facilities like new animal feeds, animal fodder etc

Appropriate programme of animal husbandry development will be drawn with estimates of expenditure, duration of the programme, personnel required, location etc

(E) Village Organizations Programme

One of the essential tasks of the group consisting of personnel drawn from the departments of Political Science and Psychology and Education is to survey the existing village organizations, and the orientations of the people concerned toward these organizations The task group will also identify the local leadership its characteristics and its functioning A study of existing attitudes towards development prevailing among different categories of people, and an analysis of group dynamics in the local area with a view to minimize local conflicts and factional animosities will gain significance in the present context

Taking into consideration the prevailing cooperative efforts towards economic and social amelioration, programmes will be formulated for the development of appropriate orientations and attitudes towards development, and also for the development of leadership especially among youth and for the extension of leadership functions for the accomplishment of goals of rural development The task group will initiate programmes for the development of collective effort in the direction of child welfare youth welfare, women welfare, and adult literacy The local school as a central institution will have to be strengthened

The estimates of expenditure, duration of the programmes, location, personnel required and the like will be indicated

(F) Alternate Energy Programme

With personnel drawn from the departments of physics and chemistry, this task group will assess the existing energy resources for domestic use as well as for agriculture as well as other economic pursuits One of the essential tasks of the task group is to identify the energy requirements of the target population and to assess the potentialities for the development of new energy forms, especially for the encouragement of new agro-based industries and other economic pursuits

Programmes will be formulated to include the conservation of existing energy and water resources, and the development of new energy resources New uses to which energy resources can be applied will also be indicated

An estimate of expenditure, the extent of new infrastructural facilities needed, the requirements of personnel, duration, etc will be made

(G) Self-Employment Programme

One essential task of the task group which will comprise personnel drawn from the departments of Social Work, Sociology and Education is to identify the existing skills with due attention to the existing type of village industries and village crafts How far the existing skills are traditional and whether there are attempts to acquire new skills may be assessed Further, the source of raw materials, the process of production, labour employed, marketing facilities for the goods produced etc will be assessed

In the light of the potentialities for the development of new skills, appropriate programmes will be drawn for the development of new skills, and for rationalization of production and marketing in respect of existing crafts and trades, with precise estimate of expenditure involved, personnel requirements, duration and possible assistance from government sources

7 Duration of the Entire Project

In the first instance, the duration of the Project will cover a period of two years extending upto 1985 The budget estimates provided in this Project Profile cover this entire two-year period till the end of calendar year 1985 In terms of financial allocation, it will cover three financial years, namely, 1983-84 to 1985-86 The total estimated expenditure is **Rs** 2,36,500 ☐

The University-Industry Partnership

T Vasudev*

The relationship between Universities and industries is interdependent and mutual assistance oriented The University education apart from developing certain qualities like training for citizenship, inculcates the ideas of fraternity, patriotism, world citizenship, intellectual analysis, imaginative insight and integrated way of life in the minds of youth It should be need-based and production-oriented As such, training the personnel for remunerative and meaningful employment is one of the goals of University education

The industrial sector of any country has to depend upon the university for its personnel requirements and solutions for specific practical problems The Universities are expected to make substantial contribution by way of procedure of evolving more rational forms of organisations and more satisfactory conventions of eradicating the old and bad habits, culture and traditions and developing new political administrative and managerial skills They have to rely on industrial sector to impart fruitful practical frame work of skill to various fields of students The success of University industry partnership depends on the quality of styles of partnership on various matters that are mutually connected

This paper is proposed to putforth certain ideas about the areas of partnership between the industry and university in the context of developing countries particularly like India Further, it focusses emphasis on infrastructure and other problems which are to be tackled in proper manner to build ideal partnership between university and industry

Styles of University/Industry Partnership

The styles of mutual contributions of the University and industry could of course be direct or indirect and could be in terms of supply of trained personnel, innovative research into the problematic areas of the industry and consultancy services

Supply of Trained Personnel

Industries often require a wide range of skills—professional and managerial—ranging from Managers and administrators, economists and lawyers, scientists, technologists, engineers, middle level executives, accountants and marketing personnel and transporting men to foremen and other skilled workers As such the university, where people receive the education (It can be defined as human investment and human resource development) has the prime responsibility of making available to the industry the appropriate form of knowledge and quantity and quality of skilled personnel who will be capable of organising the whole range of complex functions in industrial sector, where the technological progress is supposed to be taking place In other words it is expected from universities that an outflow of well trained people should take place in sufficient number as per the periodical assessment of present and future personnel needs Undoubtedly this necessitates the mutual support of both i e , university and industry The universities are to be equipped with adequate physical facilities, competent teaching staff and appropriate curriculum to instil in them the required knowledge of specialised skills whereas industries should allow them to have sufficient job training during their course of tenure before they are actually placed on the jobs This type of partnership necessarily helps the students to be successful in their future as it inculcates in them the necessary theoretical framework (from universities) and practical training (from industry) which are required for a particular position

The analysis of university/industry partnership with regard to supply of trained personnel reveals that there is no coordination between outflow from universities and quantitative and qualitative personnel requirements of the Industry The style of functioning in Indian universities is neither need-based nor based on the skills of individuals The outflow of personnel from Universities are more in number, not suitable for direct employment as per the requirement Thus, this approach of university output and non-cooperation of industrial enterprises for providing training facilities while they are studying lead to wastage of limited resources on futile aspects causing frustration and unemployment In other words due to imbalance between outflow and needs, the situation has lead to devaluation in education A fundamental factor causing devaluation was found to be excessive supply of the particular type of education in relation to demand Hence the straight forward remedy to devaluation appears to be to bring about the equilibrium between the supply and demand This needs either restricting the outflow from universities or increase the capabilities of industries to absorb more personnel Thus the situation calls for the attention of industrialists and universities for fruitful and efficient utilisation of available meagre resources In this connection I feel that the personnel requirements of particular university jurisdiction be assessed scientifically on the need based and the outflow from that university should be in conformity with the assessment

Research

The second area where university and industry share for their mutual benefit in upgrading their standards is through the conduct of research.

Vice-Chancellor, Kakatiya University, Warangal

Research is needed both at preplanning stage for correct programming and at the post operation stage for follow up action and evaluation It should serve to make higher education relevant to the socio-economic conditions of the country The success of this function depends upon the mutual cooperation and coordination between university and industry

The survey into university/industry partnership with regard to research reveals that there are certain instances of inviting the university academic staff to study on specific areas of their organisations Mostly these type of surveys and probs are with non-financial commitment on the part of industries The other type of mutual assistance in this area is donating chairs by certain industrial establishments to the University departments for doing research on specified field for a certain period Some times the industrial establishments or government sanctions certain amounts to science and engineering departments in the form of a project to inquire, experiment and find out solutions in a particular area

Though there are number of instances of such a kind of partnership between university and industry it is only informal and depends upon the confidence which the industry poses in university Many instances reveal that the industries prefer professional institutes to universities in seeking guidance

Consultancy Service

In view of the shortage of skilled managerial personnel consultancy service with universities is really useful to the industries

Consultation is needed for feasibility study and preliminary planning of new projects Specific problems on a particular technical aspect can always be referred to a specialist on the subject A well staffed university department should be too glad to be given a chance to do an impartial evaluation of any general or specific operational aspects for industries Professors could always serve as board members or consultants on technical or managerial issues They could be invited to act as part time trainees and leaders of training courses participate in or help organisation

It is also most desirable to provide adequate incentives for greater mobility of staff exchange between the universities and industries Senior Managers with adequate academic qualifications should be encouraged to deliver the lectures and participate in other activities of the universities Alternatively opportunities for acquiring relevant experience should be offered to university faculty members through periods of attachment in business or industry By this way both the academic and industrial executives could exchange, interact and cross fertilise their technical expertise and findings, their customs and insight for mutual benefit Together they can promote basic and applied research essential for developing a philosophy of management and substantive knowledge that is pertinent to the socio-cultural setting of the country They could cooperate to translate national needs into educational objectives, determine the most efficient university structures and make curricula and syllabi relevant and more responsive to economic development and social changes. Such arrangements could certainly help to integrate higher education planning into manpower developed programmes to bridge the gap that, at present, isolates the universities from urgent national concerns

It can be concluded that there is a greater need to promote the university and industry partnership for the meaningful growth and development of the country ☐

New Campus of Post-Graduate Centre of Mysore University

President Giani Zail Singh laid foundation stone of the new campus of the Post-Graduate Centre of Mysore University at Davangere on 10th April, 1984

The Post-Graduate Centre at Davangere is the second such Centre of the University of Mysore the first being at B R Project, Shimoga

Laying the foundation stone for the new campus, the President observed that politicians, educationists and teachers should desist from making use of the students for unacademic activities On the other hand, he stressed that they should work for improving the academic standards He called for minimising the importance of examinations and to re-organise the courses for helping the all round development of students

Shri B D Jatti, former Vice-President of India said on the occasion that Davangere, as industrial and commercial city, had all facilities and an atmosphere for a full-fledged University

Shri Ashok Nath Banerjee, Governor of the State and Chancellor of the Universities in Karnataka who presided, hoped that industrialists and philanthropists of the area would come forward to contribute generously to make Davangere Centre into a full fledged University

Union Minister of State for Railways Shri C K Jaffar Sherieff, State Labour and Wakf Minister, Shri Azeez Sait, and Power Minister Shri J H Patel attended the function

Professor K S Hegde, Vice-Chancellor of the University explained the plans of the University for the Post-graduate Centre at Davangere ☐

Prof. Menon Addresses Convocation of Andhra University

Excerpts from the convocation address delivered by Prof M G K Menon, Member, Planning Commission, at the Andhra University, Waltair on March 1, 1984

Those of you who are taking their degrees today have worked and been trained in a variety of disciplines that characterise the education system in the arts and humanities, in science, technology, engineering and medicine, in commerce, in law and many associated areas Some of you will go on to use your training in a direct way, for professional activities through which you will earn a living these professional activities will call for the information, techniques and skills that you have acquired, this is not the primary role of a University, but only an incidental one Others will not use in a direct way, for their professional future, information they have acquired But what should characterise all of you are the basic intellectual qualities, to reason, to analyse, to deduce, and to function in an objective and rational manner For, it is the primary role of the University to provide an environment of learning and scholarship, to enable deep intellectual interactions with your peers and teachers

"Essentially you are the product of the university system which represents the apex of the pyramid of learning The lower part of this pyramid consists of the school and college systems, which cover primary, secondary, technical and vocational education Then there are the purely professional universities, like the Agricultural Universities And there are other aspects of the education system, such as adult education, non-formal education, professional schools such as in music and dance, etc All of this is embedded in society, and cannot be divorced from the aspirations and expectations the prejudices and conflicts, the value systems and methods of functioning, etc , that characterise society Thus, the educational system of the Vedic times was characteristic of society in Vedic times In the half century prior to Independence, there was a spirit of elan, of modernisation, of the struggle being waged through the great moral force of non-violence and magnanimity, to win freedom from the largest empire then on earth this spirit in society permeated the Universities also So, when many speak to me of the ills and problems in Universities, I ask them to look at society around — can the Universities be islands insulated from the society of which they form a part? And yet, I believe that the leadership, to move forward to create a better society, to bring out the inner strength of our people which has enabled them to remain dignified and to hold their heads high in the midst of adversity and poverty, this leadership must come from those privileged to be educated

"Those of us who have had the privilege of such higher education, and to emerge from the portals of universities and similar institutions, represent only a very thin crust, and a small fraction, of our society, like the tip of an iceberg Each one of us, who has been given this opportunity must regard himself or herself as a very fortunate individual We should not regard ourselves as a privileged or elitist class in society We should be humble and grateful for the opportunities that have been given to us, that a very large part of our brothers and sisters have not had We, therefore, carry some special responsibilities towards our fellow human beings

"I cannot claim this University as my Alma Mater I am, however, aware of the great traditions of scholarship that have characterised this University over the relatively short period that it has been in existence Its founder was the great C R Reddy It has been privileged to have the late President of India S Radhakrishnan as a teacher and Vice-Chancellor C R Reddy enlisted the services of that outstanding scientist, C V Raman, for building up the Faculty of Science & Technology C V Raman was Honorary Professor and Chairman of the Faculty of Science & Technology One has only to recall the names of S Bhagavantam and Nagendra Nath in Physics, T R Seshadri in Chemistry, Meenakshisundararam, Ramaswami and Vijayaraghavan in Mathematics, and V K R V Rao in Economics to see the eminence of its Faculty Andhra University can take pride on the cosmopolitan and all-India character of its teaching staff in the past Humayun Kabir was on its Faculty

"May I remind you that this was also so in the case of our other universities when they were truely great Ashutosh Mukherjee, the great Vice-Chancellor of Calcutta University, selected C V Raman to be the Palit Professor of Physics at that University S Radhakrishnan was Vice-Chancellor of the Banaras Hindu University T R Seshadri moved to Delhi University to set up its well known Department of Chemistry In each case the individual was regarded as an Indian, no matter which part of the country he came from It was in this atmosphere of true respect for learning that the greatness of our educational institutions in the past lay, rather than an atmosphere of parochialism, communalism, theories of the "sons of the soil", narrow mindedness, and the inbreeding these lead to which unfortunately are characteristic of so many of our institutions today I hope each one of you will remember these traditions of your Alma Mater and go out into the world imbued with a spirit of broad mindedness, magnanimity and the secular outlook

"In speaking to you tod y, I thought I would share with you a broad perspective of the development of our country since we became Independent and focus on some of the major over-riding issues that confront us today It is in finding solutions to these issues that the highly educated, university-trained classes of our country have special responsibilities to society around

In the first half of this century, until Independence, the Indian economy basically languished, with the national income growing at 1 2%, agriculture at 0 3% and industrial production at 2% There were many major famines in India in the century prior to Independence, of which the major one close to Independence was the Great Bengal Famine, during the Second World War Since Independence, and the introduction of planning on a national scale new impulses have been given to the national system for growth and development For over three decades there has been an overall annual real growth of 3 5%, based on a 2 5% to 3% growth rate in agriculture and over 6% in industry The per capita income has gone up by 50% in real terms over this period

'There are many other basic economic indicators India s rice production in the last 30 years has increased from 23 to 54 million tonnes wheat production from 6 6 to 36 million tonnes and sugarcane production from 56 million tonnes to 176 million tonnes India is now the world's largest producer of sugarcane, the second largest producer of rice and the fourth largest producer of wheat The total foodgrain production this year is expected to touch 143 million tonnes the highest ever A very large part of what is needed in the country is made in the country This includes clothing, construction materials, transportation systems communication systems, chemicals, power generation equipment consumer goods of various types etc

'At the time of Independence, the small industry that existed was based on individual examples of exemplary entrepreneurs It was mainly restricted to textiles and certain basic extractive sectors Today, India is one of the major industrial nations of the world

'In one of the most advanced and sophisticated areas of science and technology, that of nuclear energy, India has a comprehensive range of capabilities, covering the entire nuclear cycle from exploration mining extraction, purification and conversion of nuclear materials, production of fuel elements for reactors the design and construction of power reactors and their control systems, production of heavy water health and safety instrumentation reprocessing of spent fuel and waste management etc Only last year an indigenously designed power reactor at Kalpakkam was commissioned with all of its major elements fabricated within the country

' With the orbiting of the Rohini Satellites using indigenously designed and developed Satellite Launch Vehicle systems the positioning of a complex geo-stationary Satellite INSAT-1B for operational use relating to tele communications, radio and TV broadcasting and remote sensing and the building of a series of satellites from Aryabhata to Bhaskara Rohini and Apple, India has achieved capability to move within a decade to its own operational space systems for regular use

' In the area of health, the nation has traversed a long distance since Independence The death rate has been reduced from 30 per thousand to 13 per thousand This is principally due to the elimination of small pox, the control of several communicable diseases and improved nutrition The birth rate has been brought down from 42 in 1960-61 to 32 per thousand currently this is of great significance from the viewpoint of stabilisation of population The expectancy of life has increased from 32 years in 1947 to 52 years in 1982 Infant mortality has been reduced to 125 per thousand live births, though this is still a very high figure All this clearly indicates that poverty, malnutrition and disease are being overcome and controlled, though not at the rate at which we would like them to be These, in my view, are better indicators of development than many economic indicators such as the poverty line where significant ambiguities in interpretation

' In the areas of science and technology there have been achievements in electronics oceanography, industrial research and so on which I do not have time to go into

I have briefly indicated some of the transformations that have been achieved in a little over three and a half decades since Independence, we have reason to be proud of them These are our achievements in a country of sub-continental dimensions, following an open and free system of parliamentary democracy All this has been possible because one has attempted to carefully husband the available resources and use them on a planned basis through the system of Five Year Plans

' The country has also exhibited a remarkable stability, in spite of many situations of crisis such as the hostilities of 1947, 1962, 1965 and 1971 the deteriorating security environment around the country, natural calamities such as droughts and floods the twenty-fold increase in the prices of imported oil over the past decade, the deteriorating climate in international trade with the building up of walls of protectionism in the developed countries, reduced availability of foreign assistance, etc Apart from steady progress in its own development, India has established its reputation for trust and creditworthiness in international financial transactions

"It is important to look at the picture on such an overall basis to see how far we have come for only that will enable us to move with a sense of confidence into the future to confront the tasks that lie ahead I believe that it is necessary to combat the need of cynicism and pessimism that many seem to exude Such a mood and approach can only lead to despair and an inability to face the situation What we need is confidence courage and integrity"

"All that I have said above does not mean however, that the entire picture relating to the state of the nation and the development process is a rosy one and that everything hoped for has been achieved—far from it We still are a very poor country in terms of the per capita national income of around 2000 rupees per annum We have a long way to go in the removal of poverty and in providing a good life for all our people This requires continuing growth, but it must be accompanied by social justice These are two of the main objectives of the current Sixth Plan the other two main objectives relate to self-reliance and modernisation

"What gives me confidence for the future, that these objectives can be achieved, is the fact that we have human raw material as fine as can be found anywhere on earth and that developments which have taken place in science and technology, and the further progress that undoubtedly will take place, are capable of providing us with solutions concerning most areas such as industry, construction, transportation communication etc that are of importance in the development process, without our necessarily having to go through the pathways which the developed countries of the world have gone through This will enable us, and I use here the hackneyed phrase, "to leapfrog into the future"

"However there are certain areas that are of deep concern to me, where we have a battle against time namely, the continuing growth of population of just under 2% per annum at present, as a result of which all our growth is nullified to this extent the necessity to grow enough food on a guaranteed basis for the growing population in the energy scarce economy of the future half a century, the problem of water in the long run for drinking agriculture industrial and other purposes, the question of availability of adequate energy, and reducing the dependence on the present non commercial forms of energy which are damaging the environment, and most important aspects relating to the development of our rich human resources through education nutrition public health and moral leadership since this constitutes the most important form of capital for development namely human capital I shall deal with these questions in the remainder of this address

Population

In the world as a whole, we live today in an unique period of pressure, in terms of the increase of population The population of the world was around one billion in the year 1800 It doubled to 2 billion by 1925 and to 4 billion by 1975 It is expected to be around 6 billion at the end of the century and 8 billion by 2025 The world population would perhaps saturate around 10 billions

"With regard to India the Census of 1981, indicated a population of 685 million The present growth rate is just under 2% per annum We could expect a population of 1000 million by 2001 and about 1375 million by 2031 The increase in population exerts a pressure on all resources and clearly reduces the impact of various efforts at development To ensure a better life for those who exist and for those yet to be born, it is essential that there is a conscious and disciplined approach to control population using all available approaches

"Fertility control needs the participation of society as a whole India was one of the earliest countries to adopt family planning as national policy The approach of Government in this matter has been to create awareness to rely on education to bring about attitudinal and behavioural changes in favour of family planning and to provide the necessary facilities actual decisions and action has to involve society on a voluntary basis

"It is very important that the educated classes of the country recognise the seriousness of this problem and contribute to creating an awareness concerning the imperative need for population stabilisation They have an important role to play in creating a favourable climate for population planning Often, narrow and petty considerations are brought up against the need for population stabilisation for example, that it will jeopardise the advantages of caste or religious groups But it is those who can reason logically, who will see the imperative Dynamics of an exponential population growth and its implications for their own well-being as well as that of the nation And it is they who will have to spearhead the movement to limit the population

Water

Most people take water for granted Those who live in severely drought-stricken areas or those who have seen the fury of floods will take a somewhat different view We must recognise that water is an important and critical resource for human survival It is of course, a resource which is never lost and which is amenable to recycling The important point to bear in mind is that it must be available where it is needed Thus the very large amount of water in the ocean is not useful for drinking, agriculture or industry except at great cost in energy The sun, of course, transports this water to the land mass where it precipitates as rain or snow It is the water which is precipitated that we have to husband carefully Water usage must be classified so that the type and purity of water is matched to its end use It is thus not optional to use drinking water for agriculture or industry With the characteristics of precipitation in our country and the damage to top soil that heavy rain and run off often create we have to increasingly work on land contouring to store and to control water flow Excess water in certain seasons can also be stored in the land mass acting as a sponge, and extracted through pumping when required, possibly using renewable forms of energy such as solar energy, wind energy biogas, etc The availability of water and the lack of safe drinking water in many parts of our country is already a serious problem Work on exploring for water and studying the hydrological cycle needs to be intensified Water must be regarded as a national asset to be used optimally for the benefit of Indian society as a whole We will need to work out strategies for the area of water right now if we are to avoid problems in the decades ahead with the large and growing population

Food and Agriculture

'Food is humankind's first need Globally, the position with regard to food production cannot be regarded as satisfactory Today more than 100 countries of the world need to import food, principally from North America and Australia Somewhat like the dependence on oil from the Middle-East, there is an increasing overall dependence on food from North America and Australia Clearly there is need for a greater degree of self-sufficiency in various parts of the world

"With regard to India, there has been a radical transformation on the agricultural scene in the last 20 years In the mid-sixties India was a major food importer But in the period that has gone by, largely through the introduction of high-yielding varieties and supporting strategies, the country has become more or less self-sufficient and has clearly the potential to continue to be so Edible oils constitute the single major item of food import—where self-sufficiency has not been achieved, but can be in the near future

"Other problems in this sector relate to storage and distribution and cutting down losses that are estimated to be as high as 20% There is also the problem of creating buying power in those sections of society who at present do not have the wherewithal to pay for their needs It is the hungry who need food most and they are the ones who are poor and are unable to buy It is thus that we come face to face with the stark need to create gainful employment

"Historically, as populations grew, food production was enlarged by increasing the area under cultivation In India this possibility does not exist to any significant extent In fact we have to contend with the degradation of agriculturally productive soil through erosion by wind and water, and through waterlogging and salinity as also loss of arable land through conversion for other usage

"The recent increases in food production have come about through increased irrigation, fertiliser inputs and new varieties of seeds which ensure repatterning of dry matter production so that more grain becomes available There is considerable scope for increased food production in India through this approach taking note of large parts of the country where high yields have not been attained However, one must remember that present agriculture is energy-intensive, and heavily based on oil which is a non-renewable resource There is clearly need to increase photo-synthetic efficiency to ensure actual increase of dry matter (rather than just repatterning of existing dry matter) and also to be able to increase the ability of plants to fix nitrogen on their own

"We must remember that this country has solar energy in abundant measure It has also significant precipitation, though a large part of this is in the form of heavy precipitation and, therefore demands measures for water storage and control to ensure its optimal use We have also to make food production relatively insensitive to the fluctuations and vagaries of weather These are some of the areas that pose a challenge both in terms of basic science as well as in taking scientific results to the field

"Agriculture represents a very complex system in view of large number of parameters involved, and the fact that it is practised by such a large part of society It also constitutes an important area for gainful employment related to post-harvest technologies as well as associated areas of poultry dairying fish farming, silk-worm rearing cottage industries, and so on While Government has certainly a role to play in terms of research and provision of extension services as well as in aspects relating to finance, availability of inputs, etc a very large part of the initiative and effort in the field involves society as a whole India's economic stability has owed largely to self-reliance and self-sufficiency that have characterised its agriculture This will continue to be so This is an area of great promise for self-employment and enterpreneurial initiative and if successfully developed as a whole will lead to a slowing down of the magration from rural to urban areas

Energy

Everyone is aware of the great importance of energy for life and development to grow food and to cook it, to keep warm, for industry and transportation, etc There is a direct relationship between per capita energy consumption and the standard of living or per capita national income At the upper end of the spectrum such as at figures of 11,000 kg of coal equivalent per capita characteristic of energy consumption in North America there is a great deal of unnecessary or wasteful consumption But at the lower end such as in India, with a figure of 190 kg of coal equivalent per capita, it is absolutely clear that energy availability has to be significantly increased to ensure a meaningful quality of life and for development There is of course, need always for conservation and for optimal utilisation of energy that is produced

'Energy has throughout received priority attention in Indian planning Thus, from an installed capacity of 1360 MW at the time of Independence, there will be about 44,000 MW by the end of the Sixth Five Year Plan in March 1985 The per capita consumption of electrical energy has increased from 15 KWH in 1951 to 150 KWH at present There is need to increase this to about 1,000 KWH at a rate of growth of 7 to 8 per cent per annum this would mean a capacity of between 1,00,000 to 1 30 000 MW by the year 2000 In terms of investments, out of a total outlay of Rs 97,500 crores for the Sixth Plan in the public sector, the total allocation for energy, including the sectors relating to coal and oil is Rs 26,535 crores, or around 25%

"An important point to bear in mind is that non-commercial energies constitute about 44% of total energy consumed in India These are fuelwood, animal dung and agricultural residues It is true that there has been a shift, with time, from non-commercial to commercial energy, in their percentages in the total consumption of energy But the actual magnitude of non commercial energy in use has gone up significantly The increased consumption of fuelwood has led to serious destruction of forests and other vegetative cover Animal dung used as fuel would otherwise be available as valuable organic manure and agricultural residues for various structural and industrial applications

'In recent years the use of oil has also gone up significantly to the extent that it is today almost half of the commercial energy that is used India imports about one-third of a barrel of oil per person par day which is very small But with its large and growing population, and the increase in price by a factor of roughly 20 over the past decade, this has constituted a tremendous burden on India's foreign exchange outflow for this one item alone The rapid development of indigenous oil production has certainly helped to keep this outflow of foreign exchange to manageable proportions But with limited world reserves, leading to problems of both availability and likely increases in price, and limited per capita domestic reserves for its needs, the increase in oil utilisation will have to be slowed down

"It is not my intention to go into the detailed aspects of the energy scenario, such as those dealing with sectors of coal, hydro electricity, nuclear power and so on What I would like to do is to point out that we are faced with certain fundamental issues relating to

(i) the need to increase rapidly the per capita availability of energy from the present very low levels,

(ii) how to substitute the present non-commercial forms of energy, particulary through the newer non-conventional renewable energies and

(iii) how to find the resources needed to provide the energy required

'It must be remembered that energy is one element of the infrastructure that cannot really be imported on any scale for a country of India's population and needs Self-reliance and a significant degree of self-sufficiency is clearly called for What is important is to recognise the urgency of the problem We have no time to lose, since energy holds the key to development

Human Capital

'India as a country is abundantly endowed with natural resources Of course, in terms of per capita availability we may be lower than some other countries of the world on individual resources, such as oil, coal, arable land, etc But overall, we are well placed

"We have made investments in the past to convert these resources to wealth Through this we have indeed achieved results, as I have earlier indicated But somehow we seem to have under estimated the importance of human capital It is the human being educated and trained, who is the key element in the production of wealth The other important elements no doubt are natural resources, energy, and information But these latter can even be obtained in large measure from outside, and if one can convert them on a highly productive basis into wealth then one can pay for importing them Thus Japan is a classical example of a country which has achieved its present high economic standing through the capability of its human resources which have enabled it to utilise energy and materials in great measure and information to a more limited extent obtained from outside We should remember that Japan has had universal education since the Meiji restoration

"Human beings, to become truly effective human capital, have to be trained and educated and to develop skills This demands investments in education There is also need for investment in public health and nutrition Even though in our Constitution it is stated that within a period of 10 years, free and compulsory education would be available for all those up to the age of 14 years we are now hoping to provide this only by the year 1990 As a result, though the level of literacy in the country has gone up from around 17% in 1951 to about 36% at present, it is sad that about two-thirds of the country is still illiterate, and with the growth in population there are more illiterates today (438 m) than they were in 1951 (300 m) Each one of us who has had the opportunity of being educated, has a special responsibility to remove this bane of illiteracy that hangs over our heads It is certainly within the capability of the educated, such as all of us assembled at this convocation, to initiate steps to set in motion a chain process, in geometric progression, which will wipe out illiteracy from the country

"Our educational system, as constituted at present, deals largely with the formal aspects of transmission of knowledge and imparting of skills Education, is more than that It essentially involves acquiring the ability to think clearly for oneself and to be able to continue learning throughout life It should lead to the growth and further development of the intellectual curiosity inherent in every human being It is as important that it should enrich the character and provide a sense of values Albert Einstein had once remarked "It is essential that the student acquire an understanding of and a lively feeling for values He must acquire a vivid sense of the beautiful and of the morally good Otherwise he, with his specialised knowledge, more closely resembles a well trained dog than a harmoniously developed person"

"Unfortunately, in the expansion which has taken place in the education system, which is no doubt needed to cater to much larger members and fulfil societal aspirations, we have neglected the important aspects relating to, character-building; the creation of a sense of values relating to Indian identity, national integration, respect for human dignity, intellectual integrity, and courage of one's convictions This country which won its independence with discipline and non-violence is today going through the throes of indiscipline and violence, inevitably in the name of petty causes, when much larger issues of great human significance confront us It surely is the responsibility of the educated of this country to provide the leadership to turn back this tide

' It is time that we dedicated overselves in spirit and in action to fulfilling Gandhiji's dream, "I shall work for an India in which the poorest shall feel that it is their country in whose making they have an effective voice, an India in which there shall be no rich class and no poor class of people, an India in which all communities shall live in perfect harmony This is the India of my dreams" This may seem an Utopian dream but we may recall what the great French scientist Pierre Curie said concerning the true motto of a scientist

> "To make of life a dream and to turn the dream into reality" □

Gujarat University Hosts Annual Meet of Indian Geographers

Gujarat University hosted the Fifth Annual Meet of the Institute of Indian Geographers (IIG) from 9th to 11th February at Ahmedabad Nearly 300 Geographers and Experts from various parts of India and abroad participated in the conference As many as 85 papers, covering varied aspects of the discipline, were presented at the technical sessions Over and above the sixteen technical sessions, two seminars and one invited talk were also organised during the three days of the conference There was full attendance of the delegates in all the technical sessions and seminars

The conference was inaugurated by Prof K S Shastri, the Vice-Chancellor of the Gujarat University The keynote address was delivered by Dr. K R Dikshit, the founder president of IIG and Head of the Department of Geography, Poona University and Dr S P Gupta, the present President of the IIG, gave presidential remarks about the activities of the Institute of Indian Geographers

Dr. Otmar Seuffert, a Guest Speaker from West Germany, gave a learned talk on the 'basic principles of Geomorphodynamics in the tropics' A panel discussion on "the evaluation of geography text-books' under the joint auspices of Gujarat State School Text-book Board and IIG, which was also held, generated a lively and heated discussion on the nature, content and level of text-books published by Gujarat Board Dr A B Mukherjee (Chandigarh) chaired the session and gave a thought provoking remarks on the nature and content to be covered in the text-books at different levels Prof Hasmukh Patel, the Vice-President of Gujarat Text-book Board, invited a positive criticism and suggestions over the text-books provided to all delegates for evaluation

Shri Digvijay Singh, the Honourable Minister of Environment, Govt of India initiated the talk on environment and the role of geographers at the concluding session of the conference The seminar on 'environment' after the Lothal field trip, was also held on the 4th day of the conference by the Research Unit of the Gujarat School Text-book Board Under the Chairmanship of Dr Das Gupta (National Atlas, Calcutta) the last academic discussion proved most successful Many young geographers participated in the discussion and the session was fully attended

The sixth meet of IIG is to be held at Tirupati in Southern India

Bombay University Organises Workshop on Quantitative Techniques in Economic Analysis

The Department of Economics, University of Bombay, under its University Leadership Project in Economics organised a 3-day Workshop on "Quantitative Techniques in Economic Analysis (Elementary Level)" at the Centre of Post-Graduate Instruction and Research in Panaji, Goa, from 4th to 6th April, 1984 25 teachers in Economics from colleges in Goa and Sindhudurg and Ratnagiri districts (of Maharashtra) participated in the Workshop

The aim of the Workshop was to provide an opportunity to teachers in Economics from these areas, to come together and familiarise themselves with some of the basics in Quantitative Techniques as applied in Economic Analysis, keeping in view the empirical relevance

At the Inaugural Session on 4th April, 1984, after extending a hearty welcome to the participating teachers, Dr Kamat Helekar, Director of the Post-Graduate Instruction and Research Centre in Goa, briefly mentioned the importance of the Workshop for teachers in Economics

The deliberations of the Workshop commenced with a Special Lecture on the 'Scope and Method of Quantitative Approaches in Economic Analysis' by Dr R Bharadwaj, Professor-in-charge of the ULP Later he also gave an idea of the Course-content of the topics to be covered at the Workshop In addition to the lectures delivered by the ULP academic staff, Dr R Bharadwaj and Principal S D Gokhale delivered two Special Lectures on "Human Resources Mobilisation Strategy of Development" and "New Strategy for Development" respectively Dr S K Gandhe, Secretary, Planning, Government of Goa, was the chief guest at the Valedictory Function organised on the concluding day of the Workshop on 6th April, 1984 He complimented the Bombay University's Department of Economics for organising such Workshops exclusively for teachers in Economics in Goa and surrounding areas in Maharashtra. He stated that acquaintance with modern Mathematical and Statistical Techniques has become very essential for applied economic policy-making both at the Micro and Macro levels

Giving their reactions of the Workshop, the teacher-participants, felt that the duration of the Workshop should have been longer Dr. R Bharadwaj, Professor-in-charge ULP, assured the teachers that the ULP would make all efforts to attend to the felt-needs of teachers in Economics in Goa and Konkan areas and initiate suitable programmes accordingly In his Vote of Thanks Principal S D Gokhale of the Birla College of Arts & Science, Kalyan, made a special reference to the role played by the University Grants Commission in encouraging such innovative programmes through the ULPs in the Universities Dr M S Gore, Vice-Chancellor, University of Bombay, had sent a special message on the occasion

The University Department of Economics will shortly be organising two more Workshops in Bombay—one on Advanced Level Quantitative Techniques and another on a topic in General Economics

Methods and interpretations in History

The Department of History, University of Poona, held a Seminar on 'Methods and Interpretations in History' on 17th & 18th February, 1984, for its M Phil students and for its post-graduate and under-graduate staff

The Seminar was inaugurated by Dr D.B. Kerur, Dean of Social Sciences, who laid stress in his speech upon the importance of scientific approach in Social Sciences, and also drew attention to the inherent dangers of such an approach, particularly the danger of failing to relate the 'slices' of the reality taken up for study to the totality of reality

Prof. Y.D Phadke of the University Department of Politics, shared with the audience the problems of historical verification of evidence He illustrated his case with his experience of re-writing the life of V D Savarkar, particularly regarding the episode of his escape from ship at Marseilles Dr Phadke pointed out the imaginative excesses of Savarkar's biographers, who were beyond correction by Savarkar himself during his lifetime Dr Phadke warned historians against easy and uncritical acceptance of evidence and spoke inspiringly about the excitement of investigative research

Dr M K Dhavalikar, Joint-Director of the Department of Archaeology, Deccan College, introduced the historians to the possibilities of enriching history, both ancient and more modern, with insights from new archaeological findings He stressed the importance of understanding 'culture process' and material life Dr Dhavalikar illustrated his talk with a wealth of information drawn from his field-work in Inamgaon

Dr A R Kulkarni's talk concluded the proceedings of the first day He described the methodology of research that he had to adopt when he worked on Grant Duff, and came to the conclusion that every research scholar has to find out his own way

Dr T R De Souza initiated the proceedings of the 2nd day with his talk on 'Oral History' and drew an extensive picture of the use made of oral history from the time history got its name, and pointed out the elements of novelty in Oral History as it is sought to be applied now-a-days

Dr A R Kulkarni concluded the Seminar proceedings by summing up the insights of information of the various guest-speakers He also had something more to add by way of stressing the importance and implications of social history and economic history, as a part of regional history He discussed the various sources and their limitations for reconstruction of the regional part

Scheme for improvement of performance at South Gujarat Varsity

South Gujarat University has decided to introduce an "improvement of performance" scheme to give students a chance to get better results in their final year and thus improve their career prospects

Under the scheme, which was approved by the Syndicate of the University recently, will be applicable to students who get more than 45% marks

The student would have to intimate the University of his intention to reappear in one or more subjects within one month of the announcement of results The result of the earlier examination in respect of such students will be treated as cancelled and the result of the re-examination will be recognised

Extension lectures at AU

Prof M V Rama Sarma, Vice-Chancellor, Sri Venkateswara University delivered the Extension Lectures at Annamalai University for the year 1983-84 Prof S V. Chitti Babu, Vice-Chancellor, Annamalai University, in his inaugural address dwelt on the need for turning to the noble and great among the men of the past pointing out that, that was the only way to elevate oneself He emphasized the usefulness of a comparative study of men of letters, their mind and art, which represented cultures and temperaments of a varying and therefore interesting nature

Prof M V Rama Sarma presented the case of the Miltonists keeping before him the British Academy Lectures of Eliot and other such attempts of critics to debunk Milton Supported by unfailing scholarship and exemplary eloquence, Prof Rama Sarma discussing the over-all achievement of Milton in his first two lectures traced the poet's pattern of philosophic interrogation and reconciliation in his works The third lecture was devoted to an interesting interpretation of *Hamlet* through an Elizabethan-Christian view, that there was no delay in Hamlet's revenge on the slayer of his father

School syllabus needs a change

Shri K K Sharma, District Education Officer, Kapurthala, presiding over a one-day orientation course for education officers and heads of the schools of Ludhiana, Patiala, Jullundur and Kapurthala, recently said that the Youth Club Programme of the Punjab Agricultural University had proved a boon for the school children since it helped in the development of their personality He further said that by participating in this programme the children could make the best use of their leisure time for useful purposes He felt that there was a need for change in the syllabus at school level The suggestion for this change should come from the educational experts of the PAU, he added

The course which was organized by the Department of Extension Education of the Punjab Agricultural University with the active collaboration of the State Education Department was attended by more than 150 delegates

Dr S S Pawar Senior Extension Specialist (Youth Programme) while reviewing the 12-year progress of Youth Club Programme in Ludhiana, Patiala and Jullundur Districts said that this programme had been extended to Kapurthala District also He further said that the Youth Clubs had started a novel and useful programme named 'care of aged people' Dr Pawar said that the youth clubs were utilizing their leisure time for useful activities like kitchen gardening, poultry farming and bee-keeping

Dr K S Nandpuri, Director of Extension Education who inaugurated the course said that the main objective behind this programme was to bring about a social change in the rural areas through school going children in order to transmit the new farm technology evolved by the PAU for cultivation and care of different cereal vegetable, and fruit crops new farm machinery and care of farm animals Dr Nandpuri advised the youth clubs to observe the dignity of labour which was a must for overall progress He advised the youth to refrain from toxicants as those were harmful for human health and retarded the pace of progress

APOGEE-84 at BITS—a grand success

The second All-India University Youth Academic Week (A Professions Oriented Gathering Over Educational Experiences) was held at Birla Institute of Technology and Science, Pilani from 13 to 15th April, 1984 During this period 96 papers were presented in 31 sessions on topics related to 17 inter-disciplinary areas Thirty three students from 14 institutions located in different parts of the country participated in this unique academic extravaganza

The APOGEE provided an opportunity to the students of different disciplines to present their professional work-achievements carried out in the course of their academic pursuits

On this occasion 20 invited lectures by eminent academicians and professionals were also organised Other highlights of the event were organisation of a books exhibition in which, besides National Book Trust, a number of other publishers of repute participated, exhibitions put up by local student associations and one on US space exploration by United States Information Service, and screening of science and technology films

APOGEE-84 was inaugurated by Dr Harsh Vardhan, ex-Director, Central Scientific Instruments Organisation, Chandigarh and the valedictory address was delivered by Prof A Rahman Director, National Institute of Science, Technology and Development Studies, New Delhi The following students of BITS won I, II, III prizes respectively in paper presentation Sri Harish Bhat, Sri Ch V S N Raju, Sri Sumant M H

Lecture series on science & technology

The Indian Institute of Technology, Delhi is starting a lecture series on Science & Technology The first lecture of the series was delivered by Prof Yashpal, Chief Consultant, Planning Commission, on "Using Satellites for New Modes of Communication" on April 24, 1984 in the Seminar Hall of the Institute

The lecture series aims at acquainting the public with details of important scientific and technical work being done in India as also at creating interest in the general public in the scientific and technical activity. A large number of scientists and engineers from various institutions are expected to attend this lecture

Review of examination reforms at Jammu Varsity

The Vice-Chancellor of Jammu University has appointed a committee of academics to review the system of Re-evaluation of answer-books and suggest measures for its improvement in the light of experience gained during the past seven years of operation of the system

It may be recalled that earlier the Vice-Chancellor appointed another committee to review the system of Internal Assessment prevalent in the University

Faculty status for MBA Department of LU

According to reports, the Lucknow University authorities have decided in principle to grant full faculty status for the Department of Business Administration of the University A proposal for the construction of a separate building for the library, auditorium, etc. has also been approved The university will provide land for the building while finances for the building would be collected from various sources including industrialists

Astronomy and space science courses at Shivalik College

According to reports, the Shivalik College at Nangal will introduce astronomy and space science as elective subjects for the undergraduate classes from the academic session 1984-85

The college will also offer a diploma course in industrial safety and postgraduate classes in economics from the next academic session

Cancer course for nurses

The Leelabai Thackersey College of Nursing of the SNDT Women's University, in collaboration with the Tata Memorial Hospital and Hiralal Narang School of Enterostomal Therapy, has planned a 9-month specialised diploma course for nurses and others in the treatment of cancer patients The course is expected to begin in June this year

National seminar on correspondence education at HP Varsity

Directorate of Correspondence Courses, Himachal Pradesh University organised the 4th National Seminar on Correspondence Education in collaboration with the University Grants Commission, and the National Council for Correspondence Education The Seminar was inaugurated by Dr L P Sinha, Vice-Chancellor, Himachal Pradesh University It was a two-day seminar attended by about 30 participants from different universities There were three academic sessions one each on lesson writing and evaluation of assignments, personal contact programme and need for a central body for correspondence Education

One participant from Research Cell, Association of Indian Universities and two participants from Ministry of Education also participated

CALENDAR OF EVENTS

Proposed Dates of the Event	Title of the Conference/Seminar/Symposium/Workshop	Name of the Organising Department	Name of the Organising Secretary/Officer to be contacted	Remarks
June 15-July 5 1984	ICAR sponsored Summer Institute on Recent trends in Bovine Surgery	College of Vety Science, G B Pant Univ of Agri & Tech, Pantnagar	Dr Amresh Kumar Prof & Head	—
June 18-July 14, 1984	UGC sponsored Summer Institute on General Relativity and Cosmology	Department of Physics Ravishankar University, Raipur	Prof R.K. Thakur Department of Physics	—
June 25-July 14 1984	ICAR sponsored Summer Institute on Biology and Management of Downy Mildews	Department of Plant Pathology, G B Pant Univ. of Agri & Tech, Pantnagar	Dr R S Singh, Prof & Head	—
June 27-July 21, 1984	ICAR sponsored Summer Institute on Bio-Fertilisers	Deptt of Agri Microbiology, Tamilnadu Agril Univ Coimbatore	Dr G Oblisamy, Prof & Head	—

News from Agril. Varsities

Insect damaging fodder crops

A serious attack of gram caterpillar on berseem and lucerne seed crops has been noticed in all the seed producing areas of Punjab The larval feeding causes heavy damage to buds, flowers and immature seeds resulting in drastic decline of seed yield

To control this pest, the experts of the Punjab Agricultural University have advised farmers to spray their infested crop with 400 ml thiodan 35 EC in 80 litres of water per acre and repeat the spraying after 10 to 15 days, if necessary The spraying should be done in the evening to save the insect-pollinators from the direct hit of the insecticide The sprayed crop should not be fed as fodder to the animals for atleast 10 days

TNAU eco research

Several aspects of the eco development of the western ghats in Tamilnadu will be taken up for research by the Tamilnadu Agricultural University The Department of Environment of the Government of India has agreed to provide Rs 55 lakhs for six schemes which would aid eco development and preserve the eco system

The main objectives are to study the microbial systems connected with the plants grown in the western ghats, the socio-cultural psychological characteristics of tribal people, the effect of environment pollution on soils, plants and water basins, the ecological factors affecting the seed production of vegetable crops, development of forage grasses, legumes, trees, etc and conduct research on medicinal plants and pines

The disciplines of soil science and agricultural chemistry, microbiology, agricultural economics, agricultural extension and rural sociology, seed technology, forage crops and horticulture will be involved in the research

Serious disease attacking mango trees

The Plant Pathologists of the Punjab Agricultural University during their recent survey of mango orchards of Punjab have observed that powdery mildew disease on mangos has appeared in serious form this year in Gurdaspur, Hoshiarpur and Ropar districts

The disease appears on the inflorescence and inhibits the setting of fruit on such inflorescences Even if the fruit setting has taken place, it may lead to fruit drop due to infection on the attachment point of the fruit with the inflorescence

To control this disease, the University experts have advised the orchardists to spray their mango trees at this stage with 500 ml Karathane or 1 25 kg of wettable sulphur in 500 litres of water More sprayings can also be done depending on the intensity of the disease

Field day organised at BCK Viswavidyalaya

A Farmers' Field Day on Spring-Summer Tomato was organised by the Field Extension Wing, Bidhan Chandra Krishi Viswavidyalaya at Kumarpur village in Nadia District, West Bengal on 4th April, 1984 under the Lab to Land Programme

It has been possible to grow Pusa Ruby tomato in the plains of West Bengal thrice in a year—first as an autumn-early winter crop, second as a main winter crop and third as a spring-summer crop

It has also been possible to introduce the cultivation of some new vegetables like amorphophallus '01' (Kovur), cauliflower (Rusa Deepali), and cabbage (Express) to bring more profit as well as more employment to the small and marginal farmers under the programme

Sri J C Sengupta, Vice-Chancellor, Bidhan Chandra Krishi Viswavidyalaya, Dr D J Ray, Zonal Coordinator, Zone II, Lab to Land Programme, a number of scientists and about fifty vegetable farmers from different villages attended the Field Day

News from UGC

UGC assistance for international astronomical union symposium

The University Grants Commission has agreed to a proposal of ISRO Satellite Centre, Bangalore, Department of Space, Government of India for providing a contribution of Rs. 2 lakhs for meeting expenditure on TA/DA and registration charges by the participants from universities and colleges in the International Astronomical Union Symposium to be held in New Delhi in November, 1985

About 2,000 delegates are expected to attend this Symposium, of which 1200 will be from outside India Prior to this symposium, two Satellite Symposia—one on Hydrogen Deficient Stars and the second on Quasars—will also be held at Mysore and Bangalore respectively

UGC approves assistance for teaching and research in museology

The University Grants Commission has agreed to provide assistance for teaching and research in Museology in Indian Universities on a selective basis This has been done on the recommendation of the Art History Panel which had constituted a small Sub-Committee to examine this question The Sub-Committee had expressed the view that the University Grants Commission should encourage and provide funds for the establishment of museums in the universities on a selective basis in the field of Humanities, Art, Natural Sciences and Technology etc The pattern of assistance would be the same as under the Sixth Plan development schemes

Additional UGC grant to Andhra University

The University Grants Commission, on the recommendation of the Sixth Plan Visiting Committee, has approved the release of an additional grant of Rs. 53 20 lakhs to Andhra University, Waltair for the following items

Books and Journals Rs 11 lakhs, equipment Rs 14 lakhs, building Rs 9 lakhs, staff Rs 17 20 lakhs and equipment for health centre Rs 2 lakhs

This grant, which is out of total allocation of Rs 100 00 lakhs for the Plan period, is in addition to Rs 46 80 lakhs already approved for various items

Additional UGC grant to Shri Krishnadevarya University

The University Grants Commission, on the recommendation of the Sixth Plan Visiting Committee, has approved the release of an additional grant of Rs 90 96 lakhs to Sri Krishnadevarya University, Anantpur (A P) for the following items

Books and Journals Rs 11 25 lakhs, equipment Rs 19.75 lakhs, building Rs 46 50 lakhs, staff (teaching and technical) Rs. 10 76 lakhs and Miscellaneous Rs 1 70 lakhs

This grant, which is out of the total allocation of Rs 100 96 lakhs for the Plan period, is in addition to Rs 10 lakhs already approved for books, journals and equipment

●The NS National Institute of Sports, Patiala would have four more disciplines for training coaches in winter games, Shooting, Squash and Equestrian skills

●A master plan for yoga development is to be prepared soon

@The question of setting up Centre for Yoga Development is under consideration

●A Centre for Yachting will soon be set up in Calcutta with sub-centres at Raipur and Amravati

New physical education college in Kerala

On a 50-acre plot of land to be given by the Kerala Government at Karya vattom, near Trivandrum, a regional college of physical education is to be set up under the auspices of the Society for National Institute of Physical Education and Sports (SNIPES) Announcing the decision taken at a recent two-day meeting of the Board of Governors of SNIPES, its Chairman, Shri V C Shukla, said that the Kerala Government would also give Rs 50 lakhs over the next five years for this project SNIPES would meet the non-recurring expenditure of Rs 231·5 lakhs and a recurring expenditure of Rs 68 5 lakhs

Winter Asiad in the offing

Winter Asian Games, on the lines of the Winter Olympic Games, are in the offing A proposal to this effect is before the Olympic Council of Asia (OCA) and the National Olympic Committee of Japan has offered to hold the first edition of the games in Japan

Meanwhile, a Winter Sports Federation of India has also been established with Mr K P Singh Deo, Minister of State for Defence, as its President Commander T Mishra, Secretary, Services Sports Control Board, has been made the secretary of the Federation

News from Abroad

1 2 million students in China's Television University

China s Television University has enrolled more than 1 2 million students since it was set up five years ago, the New China News Agency (NCNA) reported recently

It said the university was now the largest of its kind in the world and had 478,000 students majoring in 13 specialities in science, engineering and the arts

The agency said the university now had a full-time faculty of more than 11,000 plus some 18,000 teachers coaching students face-to-face The students are enrolled for a three-year curriculum and can attend some 20,000 classes across the country

Vice-Chancellors Conference

A Conference of Vice-Chancellors of Universities and deemed to be universities in India is to be held at Vigyan Bhavan, New Delhi on the 21st and 22nd May, 1984 The Conference is being organised jointly by the Ministry of Education & Culture of the Govt of India and the University Grants Commission

The main items that are likely to come up for discussion at the conference are :

(i) Maintenance of Standards and Innovative Development; (ii) The Research Role of the Universities; (iii) Universities and National Development, and (iv) Management of the Universities

AIU Library

Established in 1965, the AIU Library has acquired over the years a valuable collection of books and documents on Higher Education Among the topics prominently represented are Educational Sociology, Educational Planning, Educational Administration, Teaching & Teachers' Training, Examinations, Economics of Education and Country Studies Developing fields of Adult Education, Continuing Education and Distance Education, and Educational Technology are also well stocked. The Library is particularly strong in its collection of reports whether they are on the setting up of different universities or on the state of Higher Education Files of Annual Reports of different universities are also maintained Readers are kept informed of the latest acquisitions through our column 'Additions to AIU Library'

The Library also receives about a 100 periodical titles on Higher Education All these are indexed regularly and a select list appears every month as 'Current Documentation in Education'

Doctoral Degrees awarded during the preceding month are reported as 'Theses of the Month' while registrations made for such degrees are flashed as 'Research in Progress' Bibliographies are also compiled and supplied on demand

Research scholars and students of education are welcome to use these resources The Library is situated at 17-B, Indraprastha Marg, New Delhi-110 002 It is open from 10 a m to 5 p m Monday through Saturday except Second Saturday Access can also be had through inter library loan for which requisition must be made through your Librarian

THESES OF THE MONTH

A list of Doctoral Theses Accepted by Indian Universities

HUMANITIES

Philosophy

1 Awasthi, Jaya Rani *Shankara Vedanta mein Adhyasveda ka sameekshatmak adhyayan* BHU, Varanasi

2 Justa, H R *Aesthetics of Sri Aurobindo* HPU Simla

3 Pandey, Dina Nath *Sankhya ka dwait vad Ek sameekshatmak adhyayan* BHU Varanasi

Fine Arts

Drawing & Painting

1 Kul Bhushan *Rajasthani chitrakala mein vyaktichitra Ek tulnatmak adhyayan* Meerut U

2 Mohammed Rafiqul Alam *Art of painting in Bangladesh, 10th to 19th centuries* BHU Varanasi

3 Ram Swarup *Pahari chitrakala kee shailion kee vishya vastu evam pravidhi ka tulnatmak adhyayan* Meerut U

Music

1 Chandorkar Vijaya *Bhartiya sangeet mein nibaddha va anibaddha kee avadharana tatha unka kalkramanusar vikas* U Delhi

2 Maitra, Binata *Ritu bibartaner maulik ritupariprekshite Bhartiya ucchanga sangiter riti bibartaner baishistya bishlesan* RBU, Calcutta

3 Nayar, Sobhana *Bhatkhande's contribution to music A critical appreciation* U Delhi

4 Shukla Jogamaya *Tabale ka udgam, vikas aur vadan shailiyan* U Delhi

Language & Literature

English

1 Aditya, Anju *Victorian history plays with special reference to Tennyson, Browning and Swinburne* Meerut U

2 Chaudhry, Rita *Dramatic elements in John Donne's songs and sonnets* GNDU, Amritsar

3 Gupta, Satish *Toru Dutt and Sarojini Naidu A Comparative estimate of their poetic genius and their place in Indo-english poetry* Meerut U

4. Ravindran, V *A magnificent enigma A study of the growth of T.S Eliot's religious personality* U Delhi

German

1 Bhave Indu *A contrastive study of deep structure of noun phrases of german and hindi* BHU, Varanasi

Sanskrit

1 Bhattacharjee, Panchu Gopal *Ramayana yudha vidya* RBU, Calcutta

2 Hirelekar, Nandini Shriniwas *Yagyavalkya smritiche pramukh tikakar Vishwarup vigyaneshwaraparaditya tulnatmak adhyayan* Nagpur U

3 Jain, Sudha *Sanskrit natakon mein chhayatattva* HS Gour, Sagar

4 Kumudini *A comparative study of Samkarabhasya and Bhaskarabhasya on the Brahmasutras* U Delhi

5 Kusum Kumari *Smriti literature in the context of modern hindu law* U Delhi

6 Lajja Vati *Shrikrishnacharitamritam Mahakavya ka alochanatmak adhyayan* U Delhi

7 Mitra, Sumedha *Rigveda ke pancham mandal ka bhasha vaigyanik adhyayan* BHU Varanasi

8 Nagar Nisha *Kavi Krishna Bhatta krit Ishwar Vilas Mahakavya ka sameekshatmak adhyayan* BHU, Varanasi

9 Sarwate Asha *Dr V Raghvan ke natya evam kavyon ka anusheelan* HS Gour Sagar

10 Sharma, Kamala *Mahabhasya ke slokavarttikon ka adhyayan* U Delhi

11 Tripathy Shantilata *A critical and comparative study of Krsna problem with special reference to Harivamsa.* Utkal U, Bhubaneswar

12 Verma, Vishwanath Ram *Atharva Veda Pratishakshya tatha Panini vyakarana ka tulnatmak adhyayan* BHU, Varanasi

Punjabi

1 Panfair, Man Singh *Punjabi sahit kar [illegible] vivechan.* GNDU, Amritsar

Hindi

1 Afridi, Nafis Ahmad *Muslim lekhkon kee hindi katha-sahitya mein samajik drishti* Meerut U

2 Ansuiya Devi *Hindi gadya sahitya ke vikas mein Jabalpur ke sahityakaron ka yogdan, 1900-1910* RDV, Jabalpur

3 Arya, Dharam Pal Singh *Tulsi ke brij bhasha kavya mein vakrokti* U Delhi

4. Bharti, Shashi Prabha *Jaishankar Prasad, Jagdish Chander Mathur aur Mohan Rakesh ke natkon ka rangmanch kee drishti se adhyayan* U Delhi

5 Bijanya, Hanmant Rai *Astitvavad aur nai hindi kavita* HPU, Simla

6 Khimesara Gunmala *Tulsi poorva avadhi bhasha sahitya ka sanskritik anusheelan* Vikram U, Ujjain

7 Pandey, Mahendra Nath *Rageya Raghav kee upanyasik kala* BHU, Varanasi

8 Pandey, Veena *Kitikaleen Dhrupadon ka sahityik anusheelan.* BHU, Varanasi

9 Pathak, Ram Mohan *Kashi kee hindi patrakarita ka sahityik yogdan* BHU, Varanasi

10 Prem Lata *Ramacharitmunas mein Tulsi dwara prayukt paryay shabdawli* U Delhi

11 Sharma, Lata *Sufi Premakhayanak kavya mein kavyarurivan* U Delhi

12 Singh, Gulab Shankar *Janvadi kavita aur Dhumil* BHU, Varanasi

13. Singh, Urmila *Prasad kee kavya chetna aur unka wan darshan* BHU, Varanasi

14. Singh, Yashwant *Upanyaskar Shri Amritlal Nagar* BHU, Varanasi

15 Tripathi, Om Prakash *Hindi ka sant sahitya Lokmangal ke pariprekshya mein* BHU, Varanasi

16 Tripathi, Vashishtha Narayan *Ras parampara aur Dr. Nagendra* BHU, Varanasi

17 Urmil Kumari *Hindi kee rashtriya sanskritik kavita 1900-1950* U Delhi

Urdu

1 Nasir Mahmood Kamal *Bostan-e-khayal ka tahzibi aur lisani motalea* U Delhi

2 Taiyaba Khatoon, *Development of urdu prose from* 1857 *to* 1914. U Delhi

Bengali

1 Chattopadhyay, Birenkumar *Kabi Debendranath Sen Jiban O kabya* U Calcutta

2 Das, Debendra Bijoy *Saroj Kumar Roychowdhury O Bangla sahitya* RBU, Calcutta

3 Datta, Mira *Srichaitanya Prabhabita bangla natak* U Calcutta

Oriya

1 Das, Prana Ranjan. *Prachina oriya krushna sahitya from 15th century A D to 17th century A D* Utkal U, Bhubaneswar

2. Panigrahi, Kamalakanta *Natyakara Kalicharana Eka adhyayana* Utkal U, Bhubaneswar

Gujarati

1 Parekh, Rameshchandra Ramanlal *Shridharani na kavyo ane natako* SPU, Vallabh Vidyanagar

Telugu

1 Jagannatha Char, M *Tikkana Kumara Vyasa Bharatamula tulnatmak pariseelanamu* SKU, Anantapur

Geography

1 Kulkarni, Krishna Gangadhar *Sangli District A study in rural settlements* Shivaji U, Kolhapur

History

1 Agrawal, Rashmi *Sultanet kal mein uttradhikar kee samasya* BHU, Varanasi

2 Asha Lata *Solhaween sadi Uttar Bharat mein shiksha tatha sahitya* BHU, Varanasi

3 Ganorkar, Balaji *Sanchi shilp mein ankit jeevan* BHU Varanasi

4 Kiran Lata *Bhartiya rashtriya andolan mein Sri Arvind ka yogdan* 1910 *tak* Meerut U

5 Sawhney, Neera *UNO and Rhodesia* U Delhi

6 Shri Nivasulu, P *Some aspects of the cultural contribution to Malwa under Maratha period from* 1736 *A D* Vikram U, Ujjain

7 Singh, Pradyumna *Muslim rule in India Assessment of some modern Indian historians* BHU Varanasi

8 Sundaram, J *Land system in Tamilnadu C A D* 800-1200 U Delhi

9 Tiwari, Sushma *Nepal se prapta Lichhwi abhilekhon ka adhyayan* BHU, Varanasi

10 Verma, Mohini *Dress and ornaments in ancient India. The Maurya and Sunga periods* BHU, Varanasi

11 Yadava, Randhir Singh *Sunga Nripati aur unka kal* BHU, Varanasi

ADDITIONS TO AIU LIBRARY

Aggarwal, Pratap Chand *Halfway to equality* Delhi Manohar, 1983 279p

Association of Indian Universities, Delhi *Handbook of engineering education* 1984 Delhi, Author (c1984) xviii, 181p

——— *Handbook of medical education* 1984 Delhi, Author (c1984) xv, 198p

Bipan Chandra *Communalism in modern India* Delhi, Vikas (c1984) 363p

Borg, Walter R and Gall, Meredith Damien *Educational research An introduction* New York Longman (c1983) xxxiii 936p

Gill, Robert W *Thames and Hudson manual of rendering with pen and ink* London, Thames & Hudson (c1973) 368p

Griffin, Colin *Curriculum theory in adult and lifelong education* London, Croom Helm (c1983) 218p

Harre, Rom and Lamb, Roger, ed *Encyclopedic dictionary of Psychology* England, Basil Blackwell, 19 3 718p

Indian Association of Educational Planning and Administration, Delhi *Towards improved educational planning and administration Proceedings of the first National Conference* Delhi, Dialogue (c1983) xxx 79p

Jones, Ken *Beyond progressive education* London MacMillan (c1983) xii, 178p

Kakrambe, S A *Karmaveer Bhaurao Patil and mass education movement Its political impact on Maharashtra* Bombay Somaiya 1983 xvi, 186p

Klein, Judy Graf *Office Book Ideas and designs for contemporary work spaces* London, Frederick Mullar (c1982) 288p

Krishnamurti, J *Education and the significance of life* Delhi, B I Publications, 1973 128p

Lane, Jan-Erik and Fredriksson, Bert. *Higher education and public administration* Stockholm, Almqvist Wiksell International (c1983) 270p

Loukes, Harold and others *Education An introduction* Oxford, Martin Robertson, 1983 xiii, 138p

Lynch, James and Plunkett, H Dudley *Teacher education and cultural change England, France, West Germany* London, Allen & Unwin, 1973 197p

Makhija, Manohar Lal *Locational study of educational institutions A case study of Udaipur District—based on inter-disciplinary approach* Rohtak Suresh Book Service, 1983 xxiv, 191p

McKay, David and others ed *Data analysis and the social sciences* London Frances Pinter, 1983 ix 291p

Miller, William L *Survey method in the social and political sciences Achievements, failures, prospects* London Frances Pinter, 1983 ix, 259p

Morris, Lynn and Fitz-Gibbon, Carol Taylor *How to measure achievement* London, Sage (c1978) 159p

Nazareth M Pia *Education Goals aims and objectives* Delhi Vikas (c1984) viii, 128p

Nicholson, Michael *Scientific analysis of social behaviour A defence of empiricism in social science* London Frances Pinter (c1983) xiii 252p

Osterlind Steven J *Test item bias* London Sage 1983 85p

Paine Whiton Stewart ed *Job stress and burnout Research, theory and intervention perspectives* London Sage 1982 296p

Paliwal M R *Social change and education Present and future* Delhi Uppal, 1984 x 357p

Paul V T *Semester system Substance and problems* Delhi Sterling (c1984) 76p

Percival Fred and Ellington, Henry *Handbook of educational technology A practical guide for teachers* London Kogan Page, 1983 200p

Russell Bertrand *Principles of social reconstruction* London Allen & Unwin 1971 174p

Sembach Klaus-Jurgen ed *New furniture An international review from 1950 to the present* Stuttgart Verlag Gerd Hatje (c1982) 308p

Sethi, J D *Crisis and collapse of higher education in India* Delhi, Vikas (c1983) 255p

Sharma B A V, and others *Research methods in social sciences* Delhi Sterling (c1983) vii, 272p

Siddiqui H Y, ed *Social work and social action A developmental perspective* Delhi, Harnam Publications, 1984 viii 184p

Singh R P *Nature of teaching* Delhi National (c1983) 100p

——— *Teachers in India* Delhi, National, 1984 vii, 144p

Sinha, Subodh Kumar *Examination today Problems and reforms* Delhi Classical 1984 viii, 243p

Srivastava, Anand P and Srivastava, Anil *On bringing up weak and slow learning children Research findings and knowhow* Delhi, Learning Laboratory 1983 140p

Tikkha R N and Arneja, Manmohan Singh *Library and development oriented education* Delhi Harnam Publications 1983 xxiv 159p

Trott Andrew and others ed *Aspects of educational technology V 16 Improving efficiency in education and training* London, Kogan Page 1982 237p

Varshney Uma *Education for political socialization* Meerut, Meenakshi (c1983) viii, 168p

Watson Keith ed *Youth education and employment International perspectives* London Croom Helm (c1983) 180p

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REGIONAL ENGINEERING COLLEGE SILCHAR

Advertisement No 3 84

Applications are invited for the permanent post of PRINCIPAL Regional Engineering College Silchar in the Scale of Pay of Rs 2250-125/2-2500-EB-125/2-2750 with benefits of Contributory Provident Fund and allowances as admissible under the Rules The appointment will be made on two years probation with retirement at the age of 60 years

Qualifications Essential (i) A Doctorate Degree or a First Class Master's Degree in any Branch of Engineering or Technology from a recognised University or equivalent qualifications

Note In the case of Institutions where no class is awarded a Master's Degree with at least 60% marks in reaggate will be considered equivalent to a First Class Master's Degree

(ii) Twelve years experience in teaching research/industry including seven years experience in teaching research in an Institution of University standard and three years administrative experience relaxable for candidates possessing exceptionally high qualifications

(iii) Specialised knowledge in one or more subjects in the branch of Engineering concerned

Desirable

(i) Research publications

(ii) Experience in guiding research

(iii) Experience of Educational administration in an Engineering Institution of University standard

(iv) Corporate membership of professional institution

Age Not more than 50 years on 1st January 1984 Maximum age limit in case of special and deserving cases is relaxed ~~to 55 years~~

Candidates may have to appear for an interview in Gauhati or Silchar or Calcutta for which first class Railway fare by the shortest route will be reimbursed by the College on production of Money Receipt

Five (5) copies of applications with full bio-data with date of birth, academic qualifications and professional experience alongwith a Crossed Postal Order of Rs 10/- (Rupees Five only for the candidates belonging to Scheduled Caste Scheduled Tribe/Backward Communities etc) in favour of the Principal Regional Engineering College, Silchar should reach the undersigned on or before **20th June 1984**

Candidates already in service should send their applications through their present employer or submit No Objection Certificate' from their remployer before or at the time of interview

N K Chaudhury
PRINCIPAL SECRETARY

INDIAN SCHOOL OF MINES

DHANBAD-826004.

Adv. No 420002/84-Estt **Dated April 8, 1984**

The Indian School of Mines, deemed to be a University under the UGC Act, invites applications for recruitment to the following positions

Department/Centre	Post		Specialisation Background
(A) Centre of Mineral Resources	Asstt Professor	1	Mineral Economics
(B) Mineral Engineering	Professor Asstt Professor Lecturer	2 2 2	Mineral Engineering and related areas
(C) Mining Engineering	Professor Visiting Professor	1 1	Coal Mechanics & Excavation Engineering
	Asstt Professor	2	(a) Opencast Mining System (b) Mine Environment
	Visiting Asstt Prof	1	
	Lecturer	1	Mine Surveying (lien vacancy likely to become permanent)
(D) Industrial Engineering & Management	Lecturer	3	(a) Econometrics – 1 (b) Industrial Engg – 2
(E) Geology	Lecturer	1	
(F) Engineering & Mining Machinery	Asstt Professor Lecturer	1 1	Beneficiation Equipment
(G) Petroleum Engg	Professor	1	Petroleum Engineering
(H) Physical Training	Sports Officer	1	

2 Qualifications

(A) Professor

An eminent scholar with published work of high quality actively engaged in research with ten years experience of teaching and/or research of which five years should have been as Assistant Professor or in a position of equivalent responsibility Experience of guiding research at Doctoral level

OR

An outstanding Scholar/Engineer/Technologist with established reputation who has made significant contribution to knowledge/engineering practice

(B) Assistant Professor

(a) Good academic record with a Doctorate Degree in relevant field, Provided that candidates not possessing Ph D may be considered if they have to their credit suitable published or design development work in an institution or in an industry of repute

(b) About five years experience of teaching and/or research and development of which three years should have been as Lecturer or in a position of equivalent responsibility

(c) Evidence of having been actively engaged in (i) research or (ii) innovation of teaching methods or (iii) production of teaching material

OR

In the case of posts in engineering subjects, candidates from the industry or professional fields should possess good academic record with recognised professional work of about seven years

(C) **Lecturer** (in Engineering disciplines)

(a) Master's degree in appropriate field

(b) Consistently good academic record with a bachelor s degree in Engineering/Technology First class at Bachelor s and/or Master's level

(c) One year s relevant professional experience outside academic/research institutions

Provided that having regard to the requirements of emerging fields and of developing inter-disciplinary programmes, the requirement of Engineering/Technology degree may be waived in the cases of candidates otherwise well qualified

Provided further, that if a candidate who does not possess one year professional experience aforesaid or the Master s degree, is appointed as a Lecturer he shall be required to obtain the desired professional experience/Master s degree within a period of five years of his appointment, failing which he shall not earn future increments until he has fulfilled the said requirement(s)

(D) **Lecturer** (Science/Applied Science Subjects)

(a) A doctor's degree or research work of equally high standard

(b) Consistently good academic record with 1st or high 2nd class (B on the seven-point scale) Master s or equivalent degree in relevant subject

Having regard to the need for developing inter-disciplinary programmes, the degree in (a) and (b) above may be in subjects of relevance

Provided that if the selection committee is of the view that the research work of a candidate as evident either from his thesis or from his published work is of very high standard, it may relax any of qualifications prescribed in (b) above

Provided further that if a candidate possessing a Doctor s degree or equivalent research work is not available or is not considered suitable, a person possessing a consistently good academic record (suitable weightage being given to M Phil or equivalent degree or research work of quality) may be appointed provided he has done research work for at least two years or has practical experience in a research laboratory/organisation, on the condition that he will have to obtain a Doctor's degree or give evidence of research work of equivalent high standard within five years of his appointment, failing which he shall not earn future increments until he fulfils the said requirements

(E) **Sports Officer**

Job Description To organise athletics/sports and promote physical culture amongst students and staff To organise sports activities/tournaments of University/Intervarsity level

Qualifications

(a) High 2nd class Master s degree in Physical Education with either (i) diploma in Sports Coaching from a recognised institution (ii) a record of having represented his University at the inter-university level or a state in the national championship

(b) Experience in organising games and sports (as exemplified in handling of about half a dozen teams in a year in his institution and their participation in University/Inter-collegiate tournaments) and ability to encourage mass participation in games and sports

CANDIDATES WHO HAVE ALREADY APPLIED FOR THE POST OF PHYSICAL TRAINING SUPERINTENDENT IN RESPONSE TO ADVERTISEMENT NO 420001/84-ESTT DATED JANUARY 19 1984 NEED NOT APPLY AGAIN

3 **Pay & Allowances and Age Limit**

Post	Upper age limit	Scale of Pay (Rs)	Salary Rs at Min of Scale	Salary Rs at Max of Scale
Professor/Visiting Professor	50 years	1500-2500	2570 00	4225 00
Asstt Prof /Visiting Asstt Prof	40 years	1200-1900	2270 00	3715 00
Lecturer/Sports Officer	35 years	700-1600	1539 50	2730 00

A higher start in the scale may be given in special and deserving cases Upper age limit relaxable in respect of candidates otherwise considered suitable

4 Detailed information and prescribed application form may be had free of charge from Registrar Indian School of Mines, Dhanbad-826004 by sending a self-addressed envelope (of size 30 cm x 12 cm) duly affixed with stamps worth Rs 4 05

5 Application in the prescribed form complete in all respects should reach the undersigned on or before **26th May 1984**

REGISTRAR

CLASSIFIED ADVERTISEMENTS

PUNJABI UNIVERSITY PATIALA

(Advertisement No 7 PRO/ESTT PU/April, 1984)

Applications are invited for the following posts

1 **One Professor** (Grade Rs 1500-60-1800-100-2000-125/2-2500) **& Three Readers in English, Punjabi, Economics & Commerce** (Grade Rs 1200-50-1300-60-1900) **(For Regional Centre at Bhatinda)**

Qualifications for the Post of Professor

An eminent scholar with published work of high quality actively engaged in research About ten years experience of teaching and/or research Experience of guiding research at doctoral level

OR

An outstanding scholar with established reputation who has made significant contribution to knowledge

Qualifications for the Posts of Readers

Good academic record with a doctoral degree or equivalent published work Evidence of being actively engaged in (i) research or (ii) innovation in teaching methods or (iii) production of teaching materials

About five years experience of teaching and/or research provided that at least three of these years were as Lecturer or in an equivalent position

This condition may be relaxed in the case of candidates with outstanding record & teaching/Research

Note A person with outstanding qualification in either of these subjects could be considered for appointment as Professor and a Reader each will be appointed in the other subjects

2 **Lecturers** One each in English, Punjabi, Economics & Commerce **(For Regional Centre at Bhatinda)** (Grade Rs 700-40-1100-50-1600)

Qualifications

(a) A Doctorate's degree or research work of an equally high standard and

(b) Good academic record with at least second class (C in the seven point scale) Master's degree in a relevant subject from an Indian University or an equivalent degree from a foreign university

Having regard to the need for developing inter-disciplinary programmes, the degrees in (a) and (b) above may be in relevant subjects

Provided that if the selection committee is of the view that the research work of a candidate as evident either from his thesis or from his published work is of very high standard, it may relax any of qualifications prescribed in (b) above

Provided further that if a candidate possessing a Doctor's degree or equivalent research work is not available or is not considered suitable a person possessing a good academic record (weightage being given to M Phil or equivalent degree or research work of quality) may be appointed provided he has done research work for at least two years or has practical experience in a research laboratory/organisation on the condition that he will have to obtain a Doctor's degree or give evidence of research of high standard within eight years of his appointment failing which he will not be able to earn future increments until he fulfils these requirements

3 **Lecturer in Journalism & Mass Communication (One)**

(Grade Rs 700-40-1100-50-1600)

Qualifications

Essential

(i) Good academic record with at least second class Master's degree in the subject (Communication Mass Communication Journalism etc) from an Indian University or an equivalent degree from a foreign university

OR

At least second class (C in the seven point scale) Master's degree in Social Sciences Sciences Humanities with at least a second class Bachelor's degree or Diploma in Journalism from a recognised Indian University Post-graduate diploma from a recognised National Institute

Desirable

(i) Teaching experience at College or University level

(ii) Work experience in any area of Mass Communication (Newspaper, Magazine News Agency Public Relations Advertising Radio or T V Journalism etc)

Note

For the posts of Readers & Lecturers Good academic record will be determined as under

(i) A candidate holding a Ph D degree should possess atleast a second class Master's degree or

(ii) A candidate without Ph D degree should possess a high second class Master's degree and second class in the Bachelor's degree or

(iii) A candidate not possessing Ph D degree but possessing second class Master's degree should have obtained first class in the Bachelor's degree

4 **Assistant Registrar**

(Grade Rs 940-30-1000-40-1200/50-1400/60-1700-75-1850 Rs 100 - Spl pay)

Qualifications

Master's or LL B degree of a recognised University with at leas 7 years experience of working in a responsible position in an education institution/office

5 **Programme Officer in Departmen of Business Management One**

(Grade Rs 850-30-1000-40-1200 50 1400 60-1700)

Qualifications

MBA M Com M A in Economics a law graduate preferably with a diploma in Business Management Th candidate should have at least fiv years administrative experience as manager or supervisor Experience i handling correspondence courses wi be an additional qualification

General

Candidates for teaching and researc posts should possess working knowledge of Punjabi upto Punjabi Pa veshka standard Persons from outside Punjab could however be cons dered for appointment but they will b required to give an undertaking i writing that they will acquire the requisite qualification in Punjabi within a period of two years

Higher start within the grade admissible depending upon the ab lities and experience of the candida House rent and Dearness Allowanc Provident Fund and Medical facil ties according to University rules

Applications complete in all respec on the prescribed form accompanie by a crossed Postal Order worth R 5 - (Rs 2 - for candidates belongin to Scheduled Castes/Tribes & Backward Classes) drawn in favour of th Registrar Punjabi University Patial should reach the University by **16-5-8** The forms can be had from the Production & Sales Officer Publication Bure Punjabi University Patiala on payment of Re 1/- by sending a crosse Indian Postal Order drawn in favou of the Registrar Punjabi Universit Patiala alongwith a self addresse envelope of the size of 25×10 cm stamped with Rs 1 70 postage fo teaching posts and Re 0 50 for no teaching posts which should be superscribed at the top in bold letter **REQUEST FOR APPLICATIO FORM FOR THE POST OF——**

Persons already in service shoul apply through proper channel Tho who are not in a position to subm their applications through prop channel before the due date shou submit an advance copy before t due date and regular applicatio through proper channel by **18-5-84**

D S Kang
REGISTRA

Indian school of Mines

DHANBAD-826004

Advt No 420003/84-Estt **April 9 1984**

Indian School of Mines, deemed to be a University under the UGC Act, is setting up a Computer Centre with a VAX 11/780 type main frame It invites applications for the following posts for this Centre

1 **System Manager — One**
Qualifications Ph D in Computer Science/Technology , Experience in hardware/software and computation with large computer system

2 **System Engineer — One**
Qualifications Master's degree in Computer Science, with specialisation in software engineering, with sufficient experience in relevant line

3-4 **Programmers — Two**
Qualifications Master's/Bachelor s degree in software engineering and/or Master's degree in the application area with competency in programming

5-6 **Computer Operator Junior Grade -- Two**
Qualifications Bachelor s degree in Science with adequate training in Computer Operation

7 **Job Receptionist — One**
Qualifications Bachelor's degree in Arts with about three years experience in handling computer jobs

8-9 **Key Punch Operator -- Two**
Qualifications High School Certificate and special training in Key Punch Operations

10 **Trainee Programmer** (One-year assignment) - One
Qualifications Master's degree in Physics/Mathematics or in Computer Science

11 **Trainee Operator** (One-year assignment) -- One
Qualifications Bachelor's degree in Science with some training in Computer Operation

PAY & ALLOWANCES AND AGE LIMIT

	Upper age limit	Scale of Pay	Salary at	
	Years	Rs	Min of Scale Rs	Max of Scale Rs
System Manager	45	1500-2000	2570 00	3380 00
System Engineer	35	1100-1600	2170 00	2720 00
Programmer	35	700-1300	1539 50	2370 00
Computer Operator, Jr Grade	25	425-700	1027 70	1539 50
Job Receptionist	25	330-560	860 40	1237 60
Key Punch Operator	25	260-400	698 30	992 00
Trainee Programmer	25	600/- stipend p m	—	—
Trainee Operator	25	400/- stipend p m	—	--

Age limit relaxable by five years for SC/ST candidates, and also in cases of persons otherwise considered specially suitable

General Other things being equal, preference will be given to SC/ST candidates Further details and prescribed application forms are obtainable from the Registrar, Indian School of Mines, Dhanbad-826004, on sending a self addressed envelope of size 30 cm x 12 cm affixed with postage stamp of the value of Rs 4 05 only Completed application forms should reach the Registrar on or before **26th May, 1984**

CANVASSING IN ANY FORM WILL BE TREATED AS A DISQUALIFICATION

UNIVERSITY OF NORTH BENGAL

F 22/Advt /Estt 8/R-84 Dated, 18-4-84

Applications in prescribed forms are invited for the following posts

(A) **Professor** One each in Chemistry English, Mathematics (Specialisation General Topology/Functional Analysis/Algebra), Political Science (Specialisation Politics of Development), and Economics (Specialisation Regional Development)

(B) **Reader** One each in Chemistry, History, Physics (Specialisation High Energy Physics/Electronics), Commerce (Specialisation Industrial Economics/Labour Relations), Political Science (Specialisation Political Thought/Theory), Sociology & Social Anthropology (Specialisation Industrial/Urban Sociology), Economics (Specialisation Demography & Population Planning) and Philosophy (Specialisation Philosophy of Arts/Moral Philosophy Comparative religion)

(C) **Lecturer** One each in Chemistry, Commerce, Sociology & Social Anthropology Political Science (Specialisation International relations Research methods) and Bengali (Specialisation Hindi/Sanskrit) Lecturers in Geography & Applied Geography (Two)

(D) **Lecturer in Law** (two Posts) at the University College of Law

Scales of Pay (A) Professor Rs 1500-60-1800-100-2000-125/2-2500/- (B) Reader Rs 1200-50-1300-60-1900 - and (C) Lecturer Rs 700-40-1100-50-1600 - respectively with other allowances and benefits as per University Rules (D) Lecturer in Law Rs 700-40-1100-50-1600 - with other allowances and benefits as per Rules

Qualifications For Professors, Readers and Lecturers as prescribed by the University Grants Commission Detail of qualifications for Professors Readers and Lecturers as also for the posts of Lecturers in Law may be obtained with application forms

N B For the post of Lecturer in Commerce persons with Master's degree in Business Administration may also apply

All the posts are reserved for the candidates belonging to S C /S T provided they fulfil the essential qualifications laid down If candidates are not available or not found suitable, posts will be filled up from general categories Hence non-S C /S T candidates may also apply Choice of selection committee may not necessarily be confined to those who apply formally No application except in prescribed application forms may be considered

Prescribed application forms may be obtained from the office of the Registrar personally on payment of Rs 5/- (Rs 3/- for S C./S T) in cash at the University Cash Counter or by sending a self addressed stamped of Rs 1 40 envelope of 25 x 13 cms with crossed I P O /Bank Draft of Rs 5/- (Rs 3/ for S.C./S.T) in favour of the University of North Bengal. Filled in application forms (6 copies) along with one self-addressed unstamped envelope must reach the office of the Registrar, P O North Bengal University, Dist Darjeeling, Pin 734430 on or before 7-6-84

REGISTRAR

BIRSA AGRICULTURAL UNIVERSITY

RANCHI-834007

Advertisement No. 2/84

Applications are invited for the post of Dean (Forestry) Birsa Agricultural University Ranchi in the scale of Rs 1500-60-1800-100-2000-125/2-2500+ Rs 250/- p m special pay plus usual allowances so as to reach the undersigned alongwith I P O for Rs 10/- (Rs 2 50 for ST/SC) drawn in favour of Comptroller, Birsa Agricultural University, Ranchi by **25th May, 1984**

Qualifications

Essential

(i) Master's Degree followed by Ph D Degree in Forestry

OR

Master's Degree in Science & AIFC Diploma followed by Doctorate Degree related to Forestry subject as evident by thesis work

(ii) Atleast ten years of teaching Research or organisation and implementation experience of Forest-programme

(iii) Experience of organising, teaching, Research and Extension Education as Professor of Forestry or equivalent in a Forest Faculty

(iv) Distinguished record of leadership in the field of Forestry as Head of the Organisation/Department

Desirable

(v) Good Research Experience as evident by published papers

Applications forms and details can be obtained from Recruitment Officer Birsa Agricultural University, Ranchi Veterinary College Campus, Ranchi-834007, by making a written request accompanied by self addressed stamped (Rs 3 95 for Regd) envelope of 23 x 10 cm alongwith I P O for Rs 5/- as the cost of application form, drawn in favour of the Comptroller, Birsa Agricultural University, Ranchi-834006

R P Singh
RECRUITMENT OFFICER

MAHARSHI DAYANAND UNIVERSITY

ROHTAK

Advertisement No 2/84

Applications on prescribed forms (Through Proper Channel in the case of those who are already in employment) are invited for the following posts

University Teaching Departments

1 **Professors** In Physics, Bio-Sciences, Business Management, Mathematics, Music, Geology, Geography

2 **Readers** In Physics, Chemistry, English, Bio-Sciences, Psychology, Education, Music, Economics, Sanskrit, Pali & Prakrit, Geology, Commerce

3 **Lecturers** In Physics, Chemistry, Bio-Sciences, Hindi, Mathematics, Psychology, Geography, Education, Economics Sanskrit, Pali & Prakrit, Geology, History

University Law College

4 **Readers** In Law

5 **Lecturers** In Law, English, History, and Sociology

Qualifications

Professors

Consistently good academic record first or high second class Master's degree in the subject doctoral degree, experience of guiding research at doctoral level, 10 years' teaching experience of post-graduate classes about 5 years as Reader

OR

An eminent scholar with published work of high quality, actively engaged in research About 10 years' experience of teaching and/or research Experience of guiding research at doctoral level

Readers

Consistently good academic record, first or high second class Master's degree in the subject, doctoral degree, 5 years' experience of teaching post-graduate classes and/or post-doctoral research

Lecturers (Except Education)

(a) Consistently good academic record, first or high second class Master's degree in the subject

(b) Doctoral degree or research work of an equally high standard

Having regard to the need for developing interdisciplinary programmes, the degrees in (a) and (b) above may be in related subjects

Provided that if the Selection Committee is of the view that the research work of a candidate as evident either from his thesis or from his published work is of a very high standard it may relax any of the qualifications prescribed in (a) above

Provided further that if a candidate possessing a doctoral degree or equivalent research work is not available or is not considered suitable a person possessing a good academic record (weightage being given to M Phil or equivalent degree or research work of quality) may be appointed provided he has done research work for at least two years or has practical experience in a research laboratory/organisation on the condition that he will have to obtain a doctoral degree or give evidence of research of high standard within five years of his appointment, failing which he will not be able to earn future increments until he fulfils these requirements

Lecturer in Education

(a) Good academic record with first or second class (C in the seven point scale), Master's degree in a relevant subject

(b) Doctoral degree in Education or research work of an equally high standard

(c) Knowledge of Hindi

OR

(a) Good academic record with an M Phil degree in Education (which may be acquired while in service)

(b) Doctoral degree in any University discipline or research work of an equally high standard

(c) Knowledge of Hindi

Field of Specialisation

Professor in Physics Lasers and their applications/solid state physics theoretical physics

Professor in Bio-Sciences Any stream of life sciences Persons having long teaching and research experience in a life science/Bio Sciences department will be preferred

Professor in Business Management · Marketing Management Personnel Management / Organisational Behaviour/Production Finance

Professor in Mathematics Pure Mathematics/Applied Mathematics/ Mathematical Statistics

Readers in Physics Lasers spectroscopy/solid state physics Nuclear physics/theoretical physics semiconductor devices

Reader in Chemistry Inorganic physical organic chemistry

Readers in Commerce Quantitative techniques research methodology Accountancy & Costing (One post against leave vacancy upto 27-11-1984)

Readers in English Modern British Literature Commonwealth Literature in English/European Literature Literary Criticism

Readers in Bio-Sciences Plant Sciences Biochemistry Microbiology The persons should have done their Master's Programme in Zoology, Botany and having done their Ph D Programmes in any of the streams (Plant Sciences/Microbiology Bio-chemistry)

Readers in Psychology For one post—Experimental Psychology and other is open

Reader in Education Educationa planning and Administration, Curriculum development and Educationa Technology, Person with Master' degree in Economics, Physics, Chemistry, Zoology and Botany will b preferred

Readers in Music . One for Voca and other for Instrumental Music

Readers in Economics (i) Quantitative Economics, (ii) General Economics

Readers in Sanskrit, Pali & Prakrit One post in Grammar and for th other—Indian Philosophy

Lecturer in Physics . Solid Stat Electronics and Devices/Solid Stat Physics/Experimental

Lecturers in Chemistry : For One-Inorganic Chemistry and for the othe which is leave vacancy—Organic Ch mistry

Lecturers in Bio-Sciences · Any stream in life sciences (Plant Sciences = 3 posts, Animal Sciences (systematics) = 1 post, Microbiology/Biochemistry/Cell Biology = 3 posts)

Lecturers in Hindi For one post "The candidate should be M A Hindi and English and he should be either diploma holder in translation or should have had specialisation in translation at either of the post-graduation level in addition to other requirements"

For other post "The candidate should be having usual qualifications prescribed for a University Lecturer having preferably specialisation in Medieval poetry"

Lecturers in Mathematics Pure Mathematics

Lecturers in Psychology 1 Comparative Psychology

2 Guidance and Counselling/Clinical Psychology

3 Industrial Psychology Experimental Psychology

Lecturer in Geography Political Geography or Geography of Health

Lecturer in Education Educational Planning and Administration Curriculum Development and Educational Technology Persons with Master's degree in Economics, Physics, Chemistry Zoology and Botany will be preferred

Lecturer in Economics Quantitative Economics

Lecturer in Sanskrit Pali & Prakrit Pali and Prakrit

Lecturer in History A person capable of teaching Medieval,modern Indian History (Leave vacancy upto 31-1-1985)

Lecturers in Law College (i) Lecturer in Law without specialisation

(ii) Lecturers in English & History with Law degree will be preferred

(iii) Lecturer in Sociology with specialisation in Criminology will be preferred

(For posts other than mentioned above, candidates with any specialisation would be eligible to apply)

Non-Teaching Posts

6 **Research Associate in Physics** (Rs 1000/- p m consolidated) Ph D in physics or equivalent with specialisation in solid state physics

Note · This post is upto 20-11-1985

7 **Proof Reader (Grade-II)** (Rs 420-10-490/540-15-600-EB-20-700) Graduate of a recognised University with three years' experience of Proof Reading in English & Hindi Relaxable at the discretion of the University.

8 **Junior Store-Keeper in Press** (Rs 400-10-490/540-15-600-EB-20-660) Matric with Science/B.Sc degree The candidates with Matric qualifications should have at least five years' experience and those with B Sc degree should have at least two years' experience of Store Keeping in Post-Graduate department/University.

UNIVERSITY COLLEGE

9 **Sr Laboratory Assistants** (Rs 400-10-490/540-15-600-EB-20-660) Matric with Science, knowledge of typing, 5 years' experience of working in Science Laboratory in a college

10 **Jr Laboratory Assistants** (Rs 400-10-490/540-15 600) Matric with Science knowledge of typing three years experience of working in Science Laboratory in a college

11 **Gasman** (Rs 400-10-490/540-15-600-EB-20-660) Matric with Science knowledge of preparation of oil gas in a science laboratory in a college

U G C pay scales for all categories of teaching posts Other allowances & benefit of contributory provident fund for all the teaching & non-teaching posts admissible as per University Rules Reservation for Ex-Servicemen/B C / S C /S T candidates as per rules & no application fee from them Higher start admissible in deserving cases Knowledge of Hindi essential for all posts Qualifications relaxable for internal candidates for non-teaching posts only Number of posts is liable to be increased or decreased

Applications for posts mentioned at Sr No 1 to 6 above are to be submitted on the form prescribed for class 'A' Officers and for the remaining posts on the form prescribed for other than class 'A' Officials, alongwith attested testimonials & crossed postal order (s) for Rs 10/- in favour of the Chief Accounts Officer payable at the post Office, Rohtak The applications complete in all respect should reach the Registrar of the University by **25-5-1984** Separate application form must be used for each post The application form can be had from the Assistant Registrar (General) on payment of Rs 2/- at the counter and Rs 3/- by ordinary post

REGISTRAR

GAUHATI UNIVERSITY

GAUHATI-781014

Advertisement No 6 of 1984

Applications are invited for the following posts

1 Professor of Mathematics One post
Specialisation—Open

2 Professor of Economics One post
Specialisation—Open

3 Professor of Sanskrit One post
Specialisation—Kavya Veda/Darshana

4 Professor of Statistics One post
Specialisation—Open

5 Professor of Chemistry One post
Specialisation—Research Experience in Biochemistry

6 Professor of History One post
Specialisation—Open

7 Professor of Zoology One post
Specialisation—Cell Biology Entomology/Fish and Fishery Biology/Animal Physiology Animal Ecology

8 Professor of Anthropology One post
Specialisation—Social Anthropology

9 Professor of Psychology One post
M A /M Sc in Psychology with specialisation in any of the subfields

10 Professor of Political Science . One post
Specialisation—Public Administration

11 Reader in Assamese Two posts
Specialisation—1 For Language group—M A in Assamese (Group B) with research degree or training of published work of Merit in Language or Linguistics 2 For Literature group —M A in Assamese (Group A) with research degree or published work of Merit in Bhakti literature in India

12 Reader in M B A Two posts
Specialisation—For 1 post-MBA/ M Tech /M Com with Marketing/Foreign Trade
For 2nd post—M Sc in Mathematics Statistics/M Tech /M B A or equivalent with quantitative Analysis Operating Research

13 Reader in Sanskrit One post
Specialisation—Kavya/Veda/Darshana

14 Reader in History —One post
Specialisation—Open

15 Reader in Geography One post
Specialisation—Geomorphology

16 Reader in Journalism One post
Specialisation—Open

17 Reader in Commerce One post
Specialisation—Open

18 Reader in Diploma Course in Computer Science One post
Specialisation—Ph D Degree in Computer Science (Soft Ware) or Master degree in Computer Sc (Soft Ware) with Ph D degree in Physics/Maths/Statistics Teaching experience in Computer Sc will be treated as an added qualification

19 Reader in Foreign Language One post
Specialisation—Open

20 Reader in Library Science One post
Specialisation—Open

21 Lecturer in Mathematics One post
Specialisation—Open but preference will be given to a candidate with Numerical Analysis and Computer programming, if available

22 Lecturer in a MBA Three posts
Specialisation—For Ist post—M A (Econ)/M Sc (Econ), MBA or equivalent with specialisation in Economics/Mathematical Economics
For 2nd post/M B A , M M S or equivalent with specialisation in Financial institution/Financial Management

For 3rd post—M Tech/MBA/MMS or equivalent with specialisation in production/Operations Management

23 Lecturer in Assamese Two posts
Specialisation—For 1st post-Language group—M A in Assamese (Group B) or in Linguistics, with specialisation in Modern General Linguistics
For 2nd post—Literature group-MA in Assamese (Group A) with specialisation in Modern Assamese literature or Textual Criticism or comparative literature

24 Lecturer in Linguistics—One post
M A in linguistics with specialisation in Socio Linguistics/Tibeto-Burman Linguistics (Boro group)/Assamese linguistics-Research experience in any of the above fields will be a preferential qualifications

25 Lecturer in M I L Two posts
Specialisation For 1st post—M A in English/Sanskrit/Assamese Group A or B with Ph D in Assamese Language or literature
For 2nd post—M A in language subject with some Training in Linguistics and adequate knowledge of Boro language or M A in any of the Arts discipline with sufficient contribution in Boro Language and literature

26 Lecturer in Zoology One post
Specialisation Entomology

27 Lecturer in Environmental Science One post
Specialisation M Sc in Environmental Science with specialisation in Environmental Meteorology or M Sc in Physics with Electronics and research experience in any branch of physical Environment Experience in handling Meteorological and Seismeological equipments will be a preferential qualification

28 Lecturer in English Teaching One post
Specialisation 1 Teaching of English as a Second Language
2 Diploma holder in the teaching of English of CIEFL, Hyderabad or any other recognised Indian/Foreign University or institute

29 Lecturer in Post-B Sc Diploma course in Computer Science Two posts
Specialisation Master Degree in Computer Science (Soft Ware) Teaching experience in Computer Science will be an added qualification

30 Lecturer in Geology One post
Specialisation — Hydrogeology/Petroleum Geology

31 Lecturer in Foreign Languages One post
Specialisation—Open

Scales of Pay

1 Professor Rs 1500-60-1800-100-2000-125/2-2500/-.
2 Reader Rs 1200-50-1300-60-1900/-
3. Lecturer:Rs 700-40-1100-50-1600/-

All posts carry usual allowances admissible under the University rules in force from time to time

In case where specialisation has not been mentioned against a post candidates should state their areas of specialisation at the Master's and Doctor's degree levels

N B. . All the above posts are 6th Plan posts—Permanent

Essential Qualifications
Professor

An eminent scholar with published work of high quality actively engaged in research Ten years' experience of teaching and/or research Experience of guiding research at Doctoral level

OR

An outstanding scholar with established reputation who has made significant contribution to knowledge

Readers

Good academic record with a doctoral degree or equivalent published work Evidence of being actively engaged in (i) research or (ii) innovation in teaching methods or (iii) production of teaching materials

About five years' experience of teaching and/or research provided that at least three of these years were as Lecturer or in an equivalent position This condition may be relaxed in the case of candidates with outstanding research work

Lecturer

(a) A Doctor's degree or research work of an equally high standard, and (b) Good academic record with at least second class (C in the seven point scale) Master's degree in a relevant subject from an Indian University or an equivalent degree from a foreign University Having regard to the need for developing interdisciplinary programmes the degrees in (a) and (b) above may be in relevant subjects

Provided that if the Selection Committee is of the view that the research work of a candidate as evident either from his thesis or from his published work is of very high standard, it may relax any of qualifications prescribed in (b) above

Provided further that if a candidate possessing a Doctor's degree or equivalent research work is not available or is not considered suitable, a person possessing a good academic record (weightage being given to M Phil or equivalent degree or research work of quality) may be appointed provided he has done research work for atleast two years or has practical experience in a research Laboratory/Organisation on the condition that he will have to obtain a Doctor's degree or give evidence of research of high standard within eight years of his appointment, failing which he will not be able to earn further increments until he fulfils these requirements

Lecturer in M B.A.

Master's degree in Business Administration or M Tech in Engineering with first class with the proviso that the incumbent would acquire a doctorate degree within a period of eight years.

In the case of allied subjects like Industrial Psychology, Personnel Management, Business Statistics, Cost Accountancy, etc where lecturers could be recruited with qualifications other than M B A & M Tech , the minimum qualification would be the same as prescribed by the Commission for the faculties of Arts, Social Sciences, including Commerce and Science

Applications in plain paper in six copies giving full bio-data including (1) Name in full (in block letters), (2) Father's name, (3) Date of birth by Christian era (4) Permament residence and address (in full) (b) Present address (in full) (5) Present occupation if any and name of employer, (6) Present salary drawn (if any), (7) Detailed academic career with mark-sheets and subjects studies (including Honours) in degree and post graduate courses from Matriculation Higher Secondary High School Leaving Certificate Examination onwards and copies reprints of research contributions (8) Name and address of two referees not related to candidate together with an application fee of Rs 10 00 (Rupees ten), (Rs 7 50 in case of Scheduled Caste/Scheduled Tribe candidates) by CROSSED INDIAN POSTAL ORDER drawn in favour of the Registrar, Gauhati University payable at the Gauhati-781014 post office should be sent in an inner sealed cover superscribed application for the post of (Name of post applied for) Advt No 6 of 1984 enclosed in an outer cover addressed to the Registrar Gauhati University Gauhati-781014 to reach him not later than 21-5-84

The number of this advertisement and name of the post applied for must be referred to in the application

Persons in employment should apply through proper channel or with a no objection certificate from the present employer

Candidates will be required to appear at an interview if and when called for

Canvassing directly or indirectly will be a disqualification

M C Bhuyan
REGISTRAR

SAMBALPUR UNIVERSITY
JYOTI VIHAR . BURLA

No 8721/Estt II Dated 23 4.84
Addendum to Advt No 6855/Estt-II
Dated - 23.3 84

The following be added under the heading of qualifications for the post of Reader 2-A For the post of Reader in Library and Information Science only

(i) A good academic record with first or second class Master's degree in Library and Information Science from any recognised Indian University
(ii) A Doctorate degree in the subject or equivalent published work.

(iii) Evidence of being actively engaged in (a) research or (b) innovation in teaching methods on (c) Production of teaching materials

(iv) Minimum eight years' teaching and/or professional and/or research experience, out of which five years regular teaching must be at degree level of Library and Information Science

The last date for receipt of application for the Post of Reader in Library and Information Science is extended upto **25 5 84**

Note The Professional experience mentioned in IV above means working (in a capacity not below the rank of an Asst Librarian) in a library of an institution of higher education

N K Pujahari
REGISTRAR

HARYANA AGRICULTURAL UNIVERSITY

Advertisement No 1/84

Applications are invited for following posts Higher start permissible for outstanding qualifications experience and achievements Benefits of Contributory Provident Fund and leave etc admissible according to University Rules Applications of the candidates already in service must reach through proper channel upto the fixed date Applications on prescribed form (obtainable free by sending self-addressed unstamped envelope size 23 x 10 cms to Assistant Registrar (F), HAU Hissar) accompanied by prescribed fee of Rs 10/- in the form of Crossed Postal Order in the name of Assistant Registrar (G), HAU Hissar payable at HAU Post Office Hissar, should reach Registrar by **29-5-1984 (12-6-1984** for candidates residing abroad) Applications received late will not be considered The applicants must possess prescribed qualifications and experience on the last date for receipt of applications However those who have submitted their thesis (M Sc /Ph D) are also eligible to apply by the last date of receipt of applications The date of submission of thesis must be *supported by a certificate duly signed* by the concerned authority of the Institution They will be considered by the Selection Committee only if they produce the completion certificate of M Sc /Ph D degree at the time of interview The envelope containing application must be superscribed as "APPLICATION FOR THE POST OF– ————————"

1 **Professor of Agricultural Business Management** (One) (i) Second class Bachelor's degree (ii) Second class Master's degree in Business Management *or equivalent* P G *training* (iii) Ph D in Business Management with special reference to Agriculture or Animal Sciences (iv) Ten years experience of teaching/research/actual work in Business Management in relation to Agril Development out of which atleast five years should be as Associate Professor or of equivalent rank

2 **Professor of Family Resource Management** (One) Essential (i) Second class B Sc (Home Science) (ii) Second class M Sc in Home Management/Family Resource Management (iii) Ph D in Home Management/Family Resource Management (iv) Ten years' experience of teaching/research/extension out of which atleast 5 years should be as Associate Professor or of equivalent rank **Desirable.** (i) Extension experience and experience in designing rural field work (ii) Capacity for organisation as Head of a section or Department of teaching or research institute/Administrative experience

3 **Director of Clinics** (One) (i) Second class B V Sc /B V Sc & A H / B V A Sc (ii) Second class M V Sc in any of the Vety Clinical subject (Vety Surgery/Vety Medicine/Vety Gynaecology) (iii) Ph D in any of the Vety Clinical subject (Vety Surgery/Vety Medicine/Vety Gynaecology & Obsts) (iv) Ten years experience of Research/Teaching/Extension out of which atleast five years should be as Associate Professor or of equivalent rank

4 **Professor of Rural Development** (One) (i) Second class Bachelor's degree (ii) Second class Master's degree in Agricultural Economics/Agricultural Extension/Rural Sociology/Rural Development/Home Science/Animal Science/Veterinary Science (iii) Ph D in Agricultural Economics/Agricultural Extension/Rural Sociology/Rural Development (iv) Ten years experience of Rural Development out of which atleast five years should be as an Associate Professor or an equivalent rank (v) Capacity for organising as Head of a Section or Department of teaching or research institute/administrative experience **Desirable** Experience in formulating integrated Rural Development Programme and execution thereof

5 **Scientist (Bee Biology)** (One) **Essential** (i) Second class B Sc /B Sc (Agr) (ii) Second class M Sc in Zoology or in Agri Zoology or Entomology (iii) Ph D in Zoology/Entomology with specialisation in Agriculture/Apidology (iv) Five years experience in Research/Teaching/Extension in Agriculture/Apidology **Desirable** Experience in the maintenance and rearing of Bee-colonies and in Artificial Insemination of queen-bee

6 **Associate Professor (Vety Obstetrics)** (One) **Essential** (i) Second class B V Sc & A H (ii) Second class M V Sc in Gynaecology & Obstetrics (iii) Ph D in Gynaecology & Obstetrics (iv) Five years experience of teaching/ research/extension in Vety Gynaecology & Obstetrics **Desirable** Advanced training in Vety Obstetrics

7 **Statistician-cum-System Analyst** (One) (i) Second class B A /B Sc / B Sc (Agri) (ii) Second class M Sc in Statistics/Mathematics/Computer Sciences (iii) Ph D in Statistics/Computer Sciences (iv) Five years experience of Programming and developing systems for Computer Centre

8 **Agrometeorologist** (One) (i) Second class BSc /B Sc (Ag) (ii) Second class M Sc in Agril Meteorology/Meteorology/Physics with training in Agril Meteorology (iii) Ph D in Meteorology/Agril Meteorology (iv) Five years experience in teaching/research/extension in Agrometeorology/Agroclimatology as evidenced by published work

9 **Parasitologist** (One (i) Second class B V Sc & A H , B V A Sc (ii) Second class M V Sc in Parasitology (iii) Ph D in Parasitology with specialisation in Entomology (iv) Five years experience in research/teaching/extension in Parasitology, preferably in Entomology **Desirable** Experience of rearing and maintaining infective and non-infective colonies of ticks

10 **Associate Professor (Clothing & Textiles)** (One) (i) Second class B Sc (Home Sc) (ii) Second class M.Sc in Clothing & Textiles (iii) Ph D in Clothing & Textiles or allied field (iv) Five years experience in teaching/research/extension in Clothing & Textiles or allied field

11 **Assistant Scientist (Agronomy)** (One) (Discipline-Agronomy)

12 **Assistant Professor (Plant Physiology)** (One) (Discipline—Plant Physiology)

13 **Assistant Scientist (Horticulture Deptt)** (One) (Discipline—Horticulture)

14 **Assistant Economic Botanist (Rice)** (One) (Discipline—Plant Breeding-Rice)

15 **District Extension Specialist (Agronomy)** (Three) (Discipline—Agronomy)

16 **Assistant Scientist (Extension Education)** (One) (Discipline—Extension Education)

17 **Assistant Research Officer (Vety. Physiology)** (One) (Discipline-Vety Physiology with experience in RIA of hormones)

18 **Assistant Scientist (Vety Physiology)** (Two) (Discipline—Vety Physiology)

19 **Assistant Scientist (Vety Gynaecology & Obsts)** (One) (Discipline-Vety Gynaecology & Obstetrics)

20 **Assistant Scientist (Vety Microbioogy)** (One) (Discipline—Vety Microbiology)

21 **Assistant Professor (Internship)** (One) (Discipline-Vety Surgery/Medicine/Gynaecology/Vety Extension

22 **District Extension Specialist (Vety.)** (Seven) (Discipline—Any branch of Vety Science)

23 **Junior Reproductive Physio-Pathologist** (One) (Discipline-Animal Production Physiology)

24 **Junior Gynaecoogist : (Department of Animal Breeding)** : (One) (Discipline Vety Gynaecology & Obsts)

25 **Junior Animal Health Scientist** - (One) (Discipline-Vety Medicine or in any related discipline)

26 **Assistant Scientist (Soils)** : (One) (Discipline-Soils)

27 **Assistant Professor (Extension Education)** (One) (Discipline-Extension Education/Agril Extension Education)

28 **Assistant Scientist (Statistics)** (One) (Discipline-Statistics)

29 **Assistant Scientist (Acarology)** (One) (Discipline-Zoology with specialisation/experience in Acarology)

30 **Assistant Geneticist** : (One) (Discipline-Genetics/Botany/Plant Breeding with training in tissue culture)

Qualifications for Posts at Sr. Nos 11 to 30

(i) Atleast second class at Bachelor's level in the respective faculties i e for posts at Sr No 11 to 16, 26 & 27; B Sc (Ag) preferably B Sc (Hons) Agri , for posts at Sr. Nos 17 to 22, 24 & 25, B V Sc & A H for post at Sr No 23, B V Sc & A H , B Sc Dairying, B Sc Animal Science, B Sc Agri (with elective in Animal Science), for post at Sr No 28 B A /B.Sc with Math /B Sc Agri and for posts at Sr Nos 29 & 30 B Sc /B Sc (Agri)

(ii) Master's degree in the first class or with an OGPA of not less than 3 2/4 00 or equivalent in the disciplines mentioned against each post OR atleast second class Master's degree followed by Ph D in the disciplines mentioned against each post

31 **Assistant Professor of Physical Education (Yoga)** (One) Essential (i) Second class BSH & PE/B A —BPE/B P H (ii) First class Master's degree in Physical Education or second class Master's degree in Physical Education with two years experience in teaching on Yoga culture (iii) Diploma/Certificate in Yoga Culture of a recognised institute

32 **Assistant Scientist (Engg /Industries)** (One) (i) Bachelor's degree in Mechanical Engineering/Agril Engg in the first class or with an OGPA of not less than 3 2/4 00 or equivalent OR atleast second class Bachelor's degree in Mechanical Engineering/Agril Engg followed by 2nd class Master's degree in Mechanical Engg / Agril Engg

33 **Teacher (Zoology)** (One) (Leave Vacancy) M Sc in Zoology with University degree/diploma in teaching OR M Sc in Zoology with at least two years experience of teaching in an English Medium School

Note

1 For posts at Sr Nos 1 to 10 one or more qualifications relaxable in case of candidates found otherwise outstanding

2 The minimum experience of 5 years and 10 years (including 5 years as an Associate Professor) is required for the post of Associate Professor and Professor respectively The above experience will be counted after a candidate obtains his M Sc degree Further, a period of 3 years towards obtaining Ph D degree shall be excluded from the experience

3 Special weightage will be given to extension experience possessed by the candidates for posts in disciplines amenable to extension

4 For posts at Sr Nos 11 to 30, persons who do not possess Ph D at the time of their selection shall not be allowed to cross the stage of Rs 1,300/- in the scale of Rs 700-40-1100-50-1600 till they complete their Ph D

5 No of posts mentioned against each post may vary

6 For all the posts reservation for different categories will be as per Haryana Government Rules

PAY SCALES

Sr No of post	Pay Scale	Total emoluments at the initial of the Pay Scale (exclusive of House Rent)
1 to 4	Rs 1500-60-1800-100-2000-125/2-2500	Rs 2550/-
5 to 10	Rs 1200-50-1300-60-1900	Rs 2205/-
11 to 32	Rs 700-40-1100-50-1600	Rs 1509/-
33	Rs. 525-1050	Rs 871/-

REGISTRAR

KARNATAKA REGIONAL ENGINEERING COLLEGE SURATHKAL, D. KANNADA P O SRINIVASNAGAR-574157

Staff Recruitment

Applications in the prescribed form are invited for the following posts so as to reach the Principal not later than **15-5-1984**

1 Professor 1 (One) Post in the Civil Engineering Department (Rs 1500-60-1800-100-2000-125/2-2500) Total salary inclusive of allowances in the minimum of the grade Rs 2,489/-

2 Asst Professors 2 (Two) Posts (Rs 1200-50-1300-60-1900) Civil Engg 1 Mechanical Engg 1 Total salary inclusive of allowances in the minimum of the grade Rs 2,158 20

3 Lecturers 11 (Eleven) Posts (Rs 700-40-1100-50-1600) Applied Mechanics—5, Electrical Engg —1, Electronics & Communication—1, Mechanical Engg —1, Metallurgy—2, Chemical Engg —1 Total salary inclusive of allowances in the minimum of the grade Rs 1,408 10

Higher starts in pay will be considered in deserving cases Qualifications for the post of Professor, Assistant Professors and Lecturers will be as prescribed by U G C /A I C T E If candidates with post-graduate qualifications are not available or not found suitable for the post of Lecturers, first class Engineering Graduates may be considered for appointment as Lecturers

In case a candidate for the advertised post is not found suitable for that post, the next lower position can be offered to the candidate, if he is found suitable for the lower position.

Further details concerning qualification etc will be supplied along with the application form

Application forms and details* of prescribed qualifications and other particulars can be obtained by sending a crossed Indian Postal Order for Re 1/- (for each application form). payable to the Principal of the College at Srinivasnagar Post Office along with a self addressed envelope of size 25 x 10 cm affixed with postage of Rs 1 10

B S Basvarajaiah
PRINCIPAL

UNIVERSITY OF DELHI

Advt No Estab IV 87 84 Dated 19-4-1984

Applications on the prescribed form are invited for the following posts

	Department	Designation
1	Zoology	Two Readers
2	Psychology	One Professor
3	Chemistry	(i) Two Professors (ii) Two Readers
4	Urdu	One Professor
5	Political Science	(i) One Professor of Indian Politics (ii) One Reader in Public Administration
6	Law	Two Lecturers (one each for Campus Law Centre & Law Centre-I)
7	Chinese & Japanese Studies	(i) One Reader in Chinese Language ( )(ii) One Reader in Chinese Economics (*)(iii) One Professor in Japanese Politics (*)(iv) One Reader in Japanese Language
8	University Administration	(i) Assistant Registrars Administrative Officers Assistant Controller of Examinations (ii) Junior Assistant-cum-Typists (Hindi)
9	Physics & Astrophysics	(i) One Electronic Engineer (ii) One Assistant Electronic Engineer (iii) One Mast Mechanic (iv) One Laboratory Attendant
10	Delhi University Library System	(i) One Professional Senior (Temporary upto 7-1-1985) (ii) Semi Professional Assistants (some of the posts are reserved for Scheduled Caste Scheduled Tribe & Ex-servicemen) (iii) Junior Library Attendants (some of the posts are reserved for Scheduled Caste and Ex-servicemen) (iv) One Transcriber
11	Botany	(i) One Senior Technical Assistant (Artist) (Temporary leave vacancy upto April 1985) (ii) One Laboratory Attendant
12	Computer Science	(i) One Senior Technical Assistant (ii) One Technical Assistant
13	Engineer's Office	(i) One Store-Keeper (ii) One Assistant Store-Keeper (iii) Two Meter Readers (Elect & Civil One each) (iv) Two Draftsmen Grade-I (One reserved for Scheduled caste) (v) Two Draftsmen Grade-II (One reserved for Scheduled caste)
14	Music	Tanpura Player

(*) These posts have been sanctioned for 5 years period beginning 1983-84

The Scales of Pay of the Posts are

Professor Rs 1500-60-1800-100-2000-125/2-2500

Reader Rs 1200-50-1300-60-1900

Lecturer Rs 700-40-1100-50-1600

Assistant Registrar/Administrative Officer Assistant Controller of Examinations Electronic Engineer Rs 700-40-900-EB-40-1100-50-1300

Professional Senior Rs 1200-50-1300-60-1900

Senior Technical Assistant/Assistant Electrical Engineer Rs 550-25-750-EB-30-900

Technical Assistant Draftsman Grade-I Rs 425-15-500-EB-15-560-20-700

Mast Mechanic Rs 425-650

Semi Professional Assistant Rs 380-12-440-EB-15-560-EB-20-640

Store-Keeper Draftsman Grade-II Rs 330-10 380-EB-12-500-EB-15-560

Assistant Store-Keeper Tanpura Player Meter Readers Junior Assistant-cum-Typist (Hindi) Transcriber Rs 260-6-290-EB 6-326-8-366 EB-8-390-10-400

Laboratory Library Attendant Rs 210-4-250-EB-5-270

All posts carry D A C C A and H R A as admissible under the rules in force in the University from time to time

All ... Library

Essential Qualifications for Professorship

An eminent scholar with published work of high quality actively engaged in Research Ten years' experience of teaching and or research Experience of guiding Research at doctoral level

OR

An outstanding scholar with established reputation who has made significant contribution to knowledge

Readership (Other than Chinese & Japanese Languages)

Good academic record with at least second class Master's degree in a relevant subject with a doctoral degree or equivalent published work Evidence of being actively engaged in (i) Research, or (ii) innovation in teaching methods or (iii) production of teaching materials

Five years experience of teaching in under-graduate, post-graduate classes and or post-doctoral research work with evidence of published work

Note Second class would mean at least 50% marks in the subject or equivalent grade

Readership in Chinese Japanese Language

(a) Good academic record with atleast second class Master's degree in the relevant subject with a Doctor's Degree or equivalent published work

Independent published work (in addition to the published work mentioned above) with at least 5 years teaching experience in Honours Post-Graduate Classes essential

OR

(b) M A in Chinese Japanese Language and or Literature and minimum of 5 years teaching research or translation work and a Doctoral Degree or publications of equivalent standard

OR

(c) A Lecturer in Chinese Japanese with 5 years teaching experience and a Doctoral Degree or publications of equivalent standard

OR

(d) A Lecturer in Chinese Japanese with a minimum of 10 years teaching experience

Good Academic Record Means

(i) A candidate holding a Ph D degree should possess at least a second class Master's degree, or

(ii) a candidate without a Ph D degree should possess a high second class Master's degree and second class in the Bachelor's degree or

(iii) a candidate not possessing Ph D degree but possessing a second class Master's degree should have obtained first class in the Bachelor's degree

Note Second class would mean at least 50% marks in the subject or equivalent grade

Lecturership in Law

Good academic record with at least Second Class (C in the seven point scale) Master's Degree in Law from an Indian University with the relevant specialisation or equivalent degree from a foreign University

Professional Senior

(a) First or Second Class M A/M Sc M Com plus a first or second class B Lib Sc or diploma in Library Science The degree of M Lib Sc being a preferential qualification
(b) At least 7 years experience as Librarian or in a responsible professional capacity in a Library
(c) Good academic qualifications and research experience (with publications) The qualifications must be, in general comparable to those of Readers in the Universities

Assistant Registrar Administrative Officer Assistant Controller of Examinations

A Second Class Master's degree with 10 years office experience of which at least 5 years should be in a supervisory capacity

Note Relaxation of any of the qualifications may be made in exceptional cases in respect of Assistant Registrar Administrative Officer Assistant Controller of Examinations on the recommendation of the Selection Committee

Semi Professional Assistant

B A B Sc B Com

Certificate in Library Science Diploma in Library Science

Electronic Engineer

Bachelor's degree in Electronics Communications Telecommunications **OR** equivalent qualifications Minimum experience of three years in design fabrication and handling of Electronic equipment

Assistant Electronic Engineer

Diploma in Electronics Communications Telecommunications **OR** equivalent qualification Experience of three years in Fabrication and handling of Electronic equipment

Senior Technical Assistant (Artist)

Diploma or Certificate in Arts from a recognised Institution Experience of Scientific Drawings under different types of Microscope with or without camera lucide Knowledge of preparing graphs histograms maps charts etc

Senior Technical Assistant (Computer Science)

1 Diploma in Engineering or Electronics or B Sc in Science Mathematics Math Stat Computer Science
2 3 years Programming experience in High level languages

Store-Keeper

B Com with two years experience in handling large scale engineering stores

Draftsman Grade-I

Matric with Diploma in Draftsmanship from a recognised Institution Eight years experience as Draftsman

Note Experience can be relaxed for candidates having outstanding merits record

Draftsman Grade-II

Matric with Diploma in Draftsmanship from a recognised Institution with three years experience as Draftsman

Technical Assistant

Diploma in Engineering or Electronics or B Sc in Science Mathematics Math Stat Computer Science

Meter Readers (Electrical & Civil)

Matric examination from a recognised Institution with at least two years experience for reading water consumption meters and electric consumption meters as the case may be

Tanpura Player

1 Sound knowledge of Music
2 Proficiency in performance
3 Ability to tune Tanpura & Sitar
4 Ability to change strings of Tanpura and Sitar and to minor Jawari adjustment

Transcriber

1 Higher Secondary Senior Secondary School Certificate (10 2)
2 Knowledge of both Bharati & English Braille

Jr Assistant-cum-Typist (Hindi)

(i) Matriculation or equivalent examination of an Indian University or an examination recognised as equivalent to
(ii) Speed in typewriting at 25 w p m in Hindi on the new key board

Note The candidates will be required to qualify the General Hindi Test and Hindi Typewriting Test conducted by the University

Assistant Store-Keeper

Senior School Certificate Examination under 10 2 system or equivalent with one year experience in handling large scale engineering stores

Mast Mechanic

Matric with Science Subject About seven years experience in erections and maintenance of masts aerials is essential

Junior Library Attendants

Matric Higher Secondary

Laboratory Attendants

Should have passed matriculation or an equivalent examination with Science Subjects

Special Desirable Qualifications

Readership in Zoology

Candidates should have any one of the undermentioned 5 fields of specialization

1 Limnology
2 Animal Behaviour
3 Animal Taxonomy
4 Molecular Biology
5 Genetics

Readership in Chinese Language

Acquaintance with modern methods of Chinese language teaching

Readership in Chinese Economics

Candidates with M A and Ph D in either Economics or History and who have done work in Chinese economic history will be preferred

Professorship in Japanese Politics

(i) M A in Political Science
(ii) Evidence of research in Japanese politics and foreign policy
(iii) Proficiency in Japanese language

Readership in Japanese Language

Acquaintance with modern methods of Japanese language teaching

Technical Assistant (Computer Science)

Experience of working with digital and micro-processor system

Laboratory Attendant

Should have experience of working in a Laboratory

Tanpura Player (Music)

1 Degree Diploma in Vocal Music
2 Persons having educational background are preferable

Semi Professional Assistant (for Library of the Department of Modern European Languages)

(a) Russian or any other Slavonic language
(b) French or any other Romanic language
(c) German or any other language of the Germanic & Finno-Ugarian Group

Junior Library Attendant

Certificate in Library Science

The prescribed application form can be had from the Information Section of the University either personally or by sending a self addressed envelope (size 15 cm x 28 cm) with postage stamps worth Rs 3 45 P

The candidates will have to produce the original documents relating to their age qualifications experience etc at the time of interview

Applications (separate for each post) accompanied by attested copies of Degrees other certificates marksheets published research articles etc should be addressed to the Registrar The last date prescribed for receipt of the application is **19-5-1984**

Note

1 It will be open to the University to consider the names of suitable candidates for teaching posts who may not have applied Relaxation of any of the qualifications may be made in exceptional cases in respect of all teaching posts on the recommendations of the Selection Committee
2 Canvassing in any form by or on behalf of the candidates will disqualify
3 Candidates from outside Delhi, for teaching posts only called for interview will be paid to and fro single second class rail fare
4 The University reserves the right not to fill up any of the vacancies advertised if the circumstances so warrant

Madan Mohan
REGISTRAR